

# Poly(ethylene glycol) Derivatives

Derivatives of Poly(ethylene oxide) (PEO) find numerous uses due to their water solubility or hydrophilicity, physiological inactivity, low toxicity, and stability under many chemical conditions. Polysciences, Inc. offers, for research purposes, a wide variety of these PEO derivatives, listed in this data sheet. Also listed are the related poly(propylene oxide) (PPO) derivatives, less hydrophilic than the PEO derivatives, and PEO and PPO at a broad range of molecular weights. Requests for bulk quantities, molecular weights, and derivatives other than those shown are invited.

## Ester Terminated PEG, Reactive Derivatives

Useful for preparing other PEG derivatives.

	Poly(ethylene glycol) (n) monomethyl ether mono(succinimidylsuccinate) ester (SS-PEG (n))	
21482	n = 1900	500mg
18000	n = 5000	500mg
21483	Poly(ethylene glycol)(750) monomethyl ether monocarboxymethyl ether	500mg

## Ether Terminated PEG, Reactive Derivatives

17999	Poly(ethylene glycol (5000) monomethyl ether), activated with cyanuric chloride	500mg
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## Ester Terminated PEG, Not Polymerizable

21509	Poly(ethylene glycol)(200) adipate [68647-16-5]	100g
	Poly(ethylene glycol)(n) distearate [9005-08-7]	
02298	n = 200 mp 34°	500g
01048	n = 400 mp 35-37°	100g
		500g
19234	n = 6,000 mp 52-57°	100g
03142	Poly(ethylene glycol) (200) monostearate	100g

## Difunctional Monomers - Acrylate and Methacrylate Esters, Allyl and Vinyl Ethers

Crosslinkers of varying chain length. Hydrophilic at medium to high PEG chain length. Useful in forming water swellable gels.

02215	Diethylene glycol diacrylate [4074-88-8]	100g
	MW 214.2 bp >200°/760 mm	500g
02214	Diethylene glycol dimethacrylate [2358-84-1] MW 242.3	100g
	bp >200°/760 mm	500g
15156	Dipropylene glycol dimethacrylate	50g
	MW 270.3	
02294	Diethylene glycol divinyl ether [764-99-8] MW 158.2 bp 85-87°/10 mm	10g
02303	Ethylene glycol dimethacrylate [97-90-5] MW 198.2 bp 83-85°/1 mm	250g
	Poly(ethylene glycol)(n) diacrylate	500g
	n = 200	250g
00669		
01871	n = 400	25g
15246	n = 4,000	1g
	Poly(ethylene glycol)(n) dimethacrylate [25852-47-5]	
00096	n = 200	100g
15179	n = 400	100g
02364	n = 600	100g
15178	n = 1,000	100g
02655	Triethylene glycol diacrylate [1680-21-3]	250g
	MW 258.3 mp 125°/2 mm	
01319	Triethylene glycol dimethacrylate [109-16-0] MW 286.2 bp 162°/1.2 mm	250g
19560	Triethylene glycol divinyl ether [765-121-8] MW 202.3 bp 123°/18 mm	100g

**Monofunctional Monomers - Acrylate & Methacrylate Esters, Vinyl Ethers**

Hydrophilic monomers. Stabilizers for emulsion polymers.

02626	2-(2-Ethoxyethoxy)ethyl acrylate [7328-17-8] MW 188.2 bp 250°	100g 500g
18556	Ethoxytriethylene glycol methacrylate [39670-09-2] MW 246.3	500g 1kg
02487	2-Methoxyethyl acrylate [3121-61-7] MW 130.2 bp 65°/16 mm	100g 500g
02488	2-Methoxyethyl methacrylate [6976-93-8] MW 144.2 bp 66-67°/11 mm	100g
02640	2-Phenoxyethyl methacrylate [10595-06-9] MW 206.2 bp 130-132°/8 mm	100g
16712	n = 200	100g
16713	n = 400	100g
	Poly(ethylene glycol) (n) monomethyl ether monomethacrylate [26915-72-0]	
16664	n = 200	100g
		500g
16665	n = 400	100g
		500g
16666	n = 1,000	100g
		500g

**Diglycidyl Ethers**

Flexibilizers for epoxy resins.

Crosslinkers for polymers having carboxylic acid & other reactive groups.

01479	Ethylene glycol diglycidyl ether [2224-15-9] MW 174.2	100g
	Poly(ethylene glycol)(n) diglycidyl ether, tech.	
08209	n = 200	10g
08210	n = 400	10g
08211	n = 600	10g
		50g

**Ether Terminated, Not Polymerizable**

Poly(ethylene glycol) mono-methyl ether  
[9007-24-4] (Methoxy polyethylene glycol)

04200	MW 350	1kg
04457	MW 550	1kg
00626	MW 750	1kg
04242	MW 1,900	1kg
05986	MW 5,000	1kg

Poly(ethylene glycol)(n) dimethyl  
ether [24991-55-7] Complexing agents

17031	n = 400	25g
17032	n = 1,000	25g
17033	n = 2,000	25g

**Poly(ethylene glycol, Poly(ethylene oxide) and Poly(propylene glycol)**

These unsubstituted polyethers are offered in a wide range of molecular weights.

	Poly(ethylene glycol) [25322-68-3]	
01112	MW 200, viscous liquid	1kg
01110	MW 300, viscous liquid	1kg
01109	MW 400, viscous liquid	1kg
00684	MW 600, viscous liquid	1kg
00682	MW 1,000, waxy solid	1kg
00679	MW 1,540, waxy solid	1kg
06102	MW 3,400, waxy solid	1kg
06103	MW 7,500, waxy solid	1kg
04686	MW 18,500, hard solid	1kg
	Poly(ethylene oxide) [25322-68-3]	
06104	MW 100,000	500g
17503	MW 200,000	500g
06105	MW 300,000	500g
06106	MW 600,000	500g
21295	MW 1,000,000	500g
04030	MW 4,000,000	500g
04031	MW 5,000,000	500g
21296	MW 8,000,000	500g
	Poly(propylene glycol) [25322-69-4]	
04784	MW 400 80 centistokes @ 25°C	1kg
04788	MW 4,000 9,200 centistokes @ 25°C	1kg

**Polyester**

04301	Poly(ethylene glycol terephthalate)	250g
		1kg

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