

((oxybis(ethane-2,1-diyl))bis(oxy))bis(ethane-2,1-diyl)bis(2-methylacrylate)

Other names: 14-methyl-1,3-oxa-3,6,9,12-tetraoxapentadec-14-en-1-yl 2-methylprop-2-enoate
2-propenoic acid, 2-methyl-, oxybis(2,1-ethanediyl-oxy-2,1-ethanediyl) ester

Inchi: InChI=1S/C16H26O7/c1-13(2)15(17)22-11-9-20-7-5-19-6-8-21-10-12-23-16(18)14(3)4/h1-13,15-18,20-23,25-26H,14H2

InchiKey: LTHJXDSHSVNJKG-UHFFFAOYSA-N

Formula: C16H26O7

SMILES: C=C(C)C(=O)OCCOCCOCCOCCOC(=O)C(=C)C

Mol. weight [g/mol]: 330.38

Physical Properties

Property code	Value	Unit	Source
hf	-1156.32	kJ/mol	Cheméo Relay (1.0)
hfus	41.15	kJ/mol	Joback Method
hvap	90.32	kJ/mol	Cheméo Relay (1.0)
ie	9.55	eV	Cheméo Relay (1.0)
log10ws	-1.56		Cheméo Relay (1.0)
logp	1.275		Crippen Method
mcvol	260.190	ml/mol	McGowan Method
pc	1457.90	kPa	Joback Method
tb	615.86	K	Cheméo Relay (1.0)
tc	781.17	K	Cheméo Relay (1.0)
tf	261.80	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.83	J/mol×K	778.44	Joback Method
cpg	785.91	J/mol×K	809.39	Joback Method
cpg	800.06	J/mol×K	840.35	Joback Method
cpg	813.26	J/mol×K	871.30	Joback Method
cpg	825.51	J/mol×K	902.25	Joback Method
cpg	836.79	J/mol×K	933.21	Joback Method
cpg	847.08	J/mol×K	964.16	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
High-pressure phase behavior of tri-ethylene glycol dimethacrylate and Joback Method:	https://www.doi.org/10.1016/j.fluid.2011.12.011
tetra-ethylene glycol dimethacrylate in supercritical carbon dioxide:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/105-087-9/oxybis-ethane-2-1-diyl-bis-oxy-bis-ethane-2-1-diyl-bis-2-methylacrylate.pdf>

Generated by Cheméo on 2026-07-21 16:47:40.246803141 +0000 UTC m=+163556.088688516.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.