2,2-dimethylpropane-1,3-diyl bis(2-methylacrylate)

Other names: 2,2-dimethylpropane-1,3-diyl bis(2-methylprop-2-enoate)
neopentyl glycol dimethacrylate

Inchi: InChI=1S/C13H20O4/c1-9(2)11(14)16-7-13(5,6)8-17-12(15)10(3)4/h1,3,7-8H2,2,4-6H3

InchiKey: ULQMPOIOSDXIGC-UHFFFAOYSA-N

Formula: C13H20O4

SMILES: C=C(C)C(=O)OCC(C)(C)COC(=O)C(=C)C

Mol. weight [g/mol]: 240.30

Physical Properties

Property code	Value	Unit	Source
hf	-745.65	kJ/mol	Cheméo Relay (1.0)
hfus	22.41	kJ/mol	Joback Method
hvap	68.76	kJ/mol	Cheméo Relay (1.0)
ie	9.55	eV	Cheméo Relay (1.0)
log10ws	-2.85		Cheméo Relay (1.0)
logp	2.251		Crippen Method
mcvol	200.310	ml/mol	McGowan Method
tb	531.71	K	Cheméo Relay (1.0)
tf	342.54	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.94	J/mol×K	639.31	Joback Method
cpg	540.85	J/mol×K	671.91	Joback Method
cpg	554.93	J/mol×K	704.51	Joback Method
cpg	568.20	J/mol×K	737.11	Joback Method
cpg	580.69	J/mol×K	769.70	Joback Method
cpg	592.43	J/mol×K	802.30	Joback Method
cpg	603.44	J/mol×K	834.90	Joback Method

Sources

Joback Method:	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
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Phase behavior measurement for the binary mixture of CO2 + neopentyl glycol diacrylate and CO2 + neopentyl glycol dimethacrylate systems at high pressure:	https://www.doi.org/10.1016/j.fluid.2010.09.003

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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point