dipropoxylated glycerol triacrylate (Acrylic acid 2-acryloyloxy-3-[2-(2-acryloyloxy-propoxy)-propo ester)

Inchi: InChI=1S/C18H26O8/c1-6-16(19)24-12-15(26-18(21)8-3)11-22-9-13(4)23-10-14(5)25-17

InchiKey: LDEVANSLZVTHAA-UHFFFAOYSA-N

Formula: C18H26O8

SMILES: C=CC(=O)OCC(COCC(C)OCC(C)OC(=O)C=C)OC(=O)C=C

Mol. weight [g/mol]: 370.39

Physical Properties

Property code	Value	Unit	Source
gf	-554.88	kJ/mol	Joback Method
hf	-1053.24	kJ/mol	Joback Method
hfus	38.70	kJ/mol	Joback Method
hvap	84.78	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.353		Crippen Method
mcvol	285.640	ml/mol	McGowan Method
pc	1379.91	kPa	Joback Method
rinpol	2152.00		NIST Webbook
tb	873.67	K	Joback Method
tc	1074.18	K	Joback Method
tf	503.28	K	Joback Method
vc	1.077	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.80	J/mol×K	873.67	Joback Method
cpg	892.37	J/mol×K	907.09	Joback Method
cpg	904.71	J/mol×K	940.51	Joback Method
cpg	915.81	J/mol×K	973.92	Joback Method
cpg	925.66	J/mol×K	1007.34	Joback Method
cpg	934.24	J/mol×K	1040.76	Joback Method
cpg	941.55	J/mol×K	1074.18	Joback Method
dvisc	0.0004174	Pa×s	503.28	Joback Method
dvisc	0.0002051	Pa×s	565.01	Joback Method

dvisc	0.0001160	Pa×s	626.74	Joback Method
dvisc	0.0000726	Pa×s	688.48	Joback Method
dvisc	0.0000491	Pa×s	750.21	Joback Method
dvisc	0.0000352	Pa×s	811.94	Joback Method
dvisc	0.0000265	Pa×s	873.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508431&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume