di-ethoxylated trimethylol propane triacrylate (Acrylic acid 2-[2-(2-acryloyloxy-ethoxy)-ethoxymethyl]-2-acryl ester)

Inchi: InChI=1S/C19H28O8/c1-5-16(20)25-12-11-23-9-10-24-13-19(8-4,14-26-17(21)6-2)15-27-18(22)7-3/h5-7H,1-2,8-15H2,3-4H3

InchiKey: OPVSOMSHWCSGLJ-UHFFFAOYSA-N

Formula: C19H28O8

SMILES: C=CC(=O)OCCOCCOCC(CC)(COC(=O)C=C)COC(=O)C=C

Mol. weight [g/mol]: 384.42

Physical Properties

Property code	Value	Unit	Source
gf	-536.30	kJ/mol	Joback Method
hf	-1066.79	kJ/mol	Joback Method
hfus	44.45	kJ/mol	Joback Method
hvap	86.87	kJ/mol	Joback Method
log10ws	-1.86		Crippen Method
logp	1.604		Crippen Method
mcvol	299.730	ml/mol	McGowan Method
pc	1281.91	kPa	Joback Method
rinpol	2352.00		NIST Webbook
tb	894.64	K	Joback Method
tc	1097.43	K	Joback Method
tf	561.97	K	Joback Method
vc	1.139	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.52	J/mol×K	894.64	Joback Method
cpg	950.17	J/mol×K	928.44	Joback Method
cpg	962.60	J/mol×K	962.24	Joback Method
cpg	973.81	J/mol×K	996.03	Joback Method
cpg	983.83	J/mol×K	1029.83	Joback Method
cpg	992.65	J/mol×K	1063.63	Joback Method
cpg	1000.28	J/mol×K	1097.43	Joback Method
dvisc	0.0002339	Pa×s	561.97	Joback Method
dvisc	0.0001338	Pa×s	617.41	Joback Method

dvisc	0.0000840	Pa×s	672.86	Joback Method
dvisc	0.0000565	Pa×s	728.31	Joback Method
dvisc	0.0000403	Pa×s	783.75	Joback Method
dvisc	0.0000300	Pa×s	839.19	Joback Method
dvisc	0.0000232	Pa×s	894.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508362&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

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