

tetra-ethoxylated 1,6 hexane diol diacrylate

Inchi:	InChI=1S/C20H34O8/c1-3-19(21)27-17-15-25-13-11-23-9-7-5-6-8-10-24-12-14-26-16-18
InchiKey:	CBAWWPAEDXEGIL-UHFFFAOYSA-N
Formula:	C20H34O8
SMILES:	C=CC(=O)OCCOCCOCCCCCOCCOCCOC(=O)C=C
Mol. weight [g/mol]:	402.48

Physical Properties

Property code	Value	Unit	Source
gf	-594.64	kJ/mol	Joback Method
hf	-1223.75	kJ/mol	Joback Method
hfus	55.32	kJ/mol	Joback Method
hvap	86.73	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	2.072		Crippen Method
mcvol	322.420	ml/mol	McGowan Method
pc	1089.22	kPa	Joback Method
rinpol	2668.00		NIST Webbook
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tb	892.62	K	Joback Method
tc	1092.89	K	Joback Method
tf	544.88	K	Joback Method
vc	1.238	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1037.02	J/molxK	892.62	Joback Method
cpg	1052.96	J/molxK	926.00	Joback Method
cpg	1067.47	J/molxK	959.38	Joback Method
cpg	1080.52	J/molxK	992.75	Joback Method
cpg	1092.11	J/molxK	1026.13	Joback Method
cpg	1102.20	J/molxK	1059.51	Joback Method
cpg	1110.78	J/molxK	1092.89	Joback Method
dvisc	0.0001968	Paxs	544.88	Joback Method

dvisc	0.0001101	Paxs	602.84	Joback Method
dvisc	0.0000683	Paxs	660.79	Joback Method
dvisc	0.0000457	Paxs	718.75	Joback Method
dvisc	0.0000325	Paxs	776.71	Joback Method
dvisc	0.0000242	Paxs	834.66	Joback Method
dvisc	0.0000187	Paxs	892.62	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508555&Units=SI

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

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