

tri-Propoxylated neopentyl glycol diacrylate

Inchi: InChI=1S/C20H34O7/c1-8-18(21)26-16(4)11-24-14-20(6,7)13-23-10-15(3)25-12-17(5)27
InchiKey: GVAKVLUFUQSBNI-UHFFFAOYSA-N
Formula: C20H34O7
SMILES: C=CC(=O)OC(C)COCC(C)(C)COCC(C)OCC(C)OC(=O)C=C
Mol. weight [g/mol]: 386.48

Physical Properties

Property code	Value	Unit	Source
gf	-494.12	kJ/mol	Joback Method
hf	-1116.12	kJ/mol	Joback Method
hfus	36.15	kJ/mol	Joback Method
hvap	81.86	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.686		Crippen Method
mcvol	316.550	ml/mol	McGowan Method
pc	1133.67	kPa	Joback Method
rinpol	2127.00		NIST Webbook
rinpol	2156.00		NIST Webbook
tb	865.65	K	Joback Method
tc	1063.48	K	Joback Method
tf	480.07	K	Joback Method
vc	1.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1009.21	J/mol×K	865.65	Joback Method
cpg	1025.54	J/mol×K	898.62	Joback Method
cpg	1040.59	J/mol×K	931.59	Joback Method
cpg	1054.36	J/mol×K	964.57	Joback Method
cpg	1066.86	J/mol×K	997.54	Joback Method
cpg	1078.10	J/mol×K	1030.51	Joback Method
cpg	1088.09	J/mol×K	1063.48	Joback Method
dvisc	0.0003991	Pa×s	480.07	Joback Method

dvisc	0.0001679	Pa×s	544.33	Joback Method
dvisc	0.0000848	Pa×s	608.60	Joback Method
dvisc	0.0000488	Pa×s	672.86	Joback Method
dvisc	0.0000309	Pa×s	737.12	Joback Method
dvisc	0.0000211	Pa×s	801.39	Joback Method
dvisc	0.0000152	Pa×s	865.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508253&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
mccvol:	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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