

tri-ethoxylated 1,6 hexane diol diacrylate

Inchi:	InChI=1S/C18H30O7/c1-3-17(19)24-15-13-22-10-8-6-5-7-9-21-11-12-23-14-16-25-18(20)
InchiKey:	YWQAAVZZVXFLCZ-UHFFFAOYSA-N
Formula:	C18H30O7
SMILES:	C=CC(=O)OCCOCCCCCOCCOCCOC(=O)C=C
Mol. weight [g/mol]:	358.43

Physical Properties

Property code	Value	Unit	Source
gf	-506.48	kJ/mol	Joback Method
hf	-1050.25	kJ/mol	Joback Method
hfus	48.95	kJ/mol	Joback Method
hvap	79.86	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	2.055		Crippen Method
mcvol	288.370	ml/mol	McGowan Method
pc	1256.59	kPa	Joback Method
rinpol	2395.00		NIST Webbook
rinpol	2395.00		NIST Webbook
tb	824.44	K	Joback Method
tc	1012.12	K	Joback Method
tf	500.11	K	Joback Method
vc	1.107	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	887.74	J/molxK	824.44	Joback Method
cpg	903.38	J/molxK	855.72	Joback Method
cpg	917.95	J/molxK	887.00	Joback Method
cpg	931.43	J/molxK	918.28	Joback Method
cpg	943.82	J/molxK	949.56	Joback Method
cpg	955.11	J/molxK	980.84	Joback Method
cpg	965.29	J/molxK	1012.12	Joback Method
dvisc	0.0003541	Paxs	500.11	Joback Method

dvisc	0.0001981	Paxs	554.16	Joback Method
dvisc	0.0001229	Paxs	608.22	Joback Method
dvisc	0.0000824	Paxs	662.27	Joback Method
dvisc	0.0000587	Paxs	716.33	Joback Method
dvisc	0.0000438	Paxs	770.38	Joback Method
dvisc	0.0000340	Paxs	824.44	Joback Method

Sources

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=R508595&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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