

di- TMPTA (Di -Trimethylol propane tetraacrylate)

Inchi:	InChI=1S/C24H34O9/c1-7-19(25)30-15-23(11-5,16-31-20(26)8-2)13-29-14-24(12-6,17-3
InchiKey:	XRMBQHTWUBGQDN-UHFFFAOYSA-N
Formula:	C24H34O9
SMILES:	C=CC(=O)OCC(CC)(COCC(CC)(COC(=O)C=C)COC(=O)C=C)COC(=O)C=C
Mol. weight [g/mol]:	466.52

Physical Properties

Property code	Value	Unit	Source
gf	-532.44	kJ/mol	Joback Method
hf	-1165.89	kJ/mol	Joback Method
hfus	50.30	kJ/mol	Joback Method
hvap	102.78	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.713		Crippen Method
mcvol	367.450	ml/mol	McGowan Method
pc	1008.45	kPa	Joback Method
rinsol	2652.00		NIST Webbook
tb	1056.36	K	Joback Method
tc	1296.23	K	Joback Method
tf	668.91	K	Joback Method
vc	1.395	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1215.00	J/molxK	1056.36	Joback Method
cpg	1227.18	J/molxK	1096.34	Joback Method
cpg	1237.74	J/molxK	1136.32	Joback Method
cpg	1246.77	J/molxK	1176.29	Joback Method
cpg	1254.32	J/molxK	1216.27	Joback Method
cpg	1260.47	J/molxK	1256.25	Joback Method
cpg	1265.29	J/molxK	1296.23	Joback Method
dvisc	0.0000853	Paxs	668.91	Joback Method
dvisc	0.0000479	Paxs	733.49	Joback Method

dvisc	0.0000295	Paxs	798.06	Joback Method
dvisc	0.0000196	Paxs	862.63	Joback Method
dvisc	0.0000137	Paxs	927.21	Joback Method
dvisc	0.0000101	Paxs	991.79	Joback Method
dvisc	0.0000077	Paxs	1056.36	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508446&Units=SI
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

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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