1,5-Naphthalenedimethanol, alpha,alpha,alpha',alpha'-tetramethyl-

Inchi: InChI=1S/C16H20O2/c1-15(2,17)13-9-5-8-12-11(13)7-6-10-14(12)16(3,4)18/h5-10,17-18

InchiKey: QZIRPTFOJIXAPH-UHFFFAOYSA-N

Formula: C16H20O2

SMILES: CC(C)(O)c1cccc2c(C(C)(C)O)cccc12

Mol. weight [g/mol]: 244.33

CAS: 24168-56-7

Physical Properties

Property code	Value	Unit	Source
gf	15.68	kJ/mol	Joback Method
hf	-290.87	kJ/mol	Joback Method
hfus	20.83	kJ/mol	Joback Method
hvap	87.22	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.295		Crippen Method
mcvol	204.820	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
tb	799.00	K	Joback Method
tc	1009.08	K	Joback Method
tf	480.72	K	Joback Method
vc	0.761	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	608.58	J/mol×K	799.00	Joback Method
cpg	620.57	J/mol×K	834.01	Joback Method
cpg	631.87	J/mol×K	869.03	Joback Method
cpg	642.57	J/mol×K	904.04	Joback Method
cpg	652.78	J/mol×K	939.05	Joback Method
cpg	662.59	J/mol×K	974.07	Joback Method
cpg	672.12	J/mol×K	1009.08	Joback Method
dvisc	0.0005691	Pa×s	480.72	Joback Method
dvisc	0.0001875	Pa×s	533.77	Joback Method

dvisc	0.0000755	Pa×s	586.81	Joback Method
dvisc	0.0000354	Pa×s	639.86	Joback Method
dvisc	0.0000186	Pa×s	692.91	Joback Method
dvisc	0.0000107	Pa×s	745.95	Joback Method
dvisc	0.0000066	Pa×s	799.00	Joback Method

Sources

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=C24168567&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume