3,7-Octadiene-2,6-diol, 2,6-dimethyl-

Other names:	1,5-Octadiene-3,7-diol, 3,7-dimethyl-
	2,6-Dimethyl-3,7-octadiene-2,6-diol
	1,5-Octadien-3,7-diol, 3,7-dimethyl
	2,6-Dimethyl-3,7-octadien-2,6-diol
	2,6-Dimethylocta-3,7-dien-2,6-diol
	2,6-Dimethylocta-3,7-diene-2,6-diol
	3,7-Dimethyl-1,5-octadien-3,7-diol
	3,7-Dimethyl-1,5-octadiene-3,7-diol
	3,7-Dimethyloct-1,5-dien-3,7-diol
	3,7-Dimethylocta-1,5-diene-3,7-diol
	trans-3,7-dimethyl-1,5-octadiene-3,7-diol
	(E)-2,6-Dimethyl-3,7-octadien-2,6-diol
Inchi:	InChI=1S/C10H18O2/c1-5-10(4,12)8-6-7-9(2,3)11/h5-7,11-12H,1,8H2,2-4H3/b7-6+
InchiKey:	QEOHJVNDENHRCH-VOTSOKGWSA-N
Formula:	C10H18O2
SMILES:	C=CC(C)(O)CC=CC(C)(C)O
Mol. weight [g/mol]:	170.25
CAS:	13741-21-4

Physical Properties

Property code	Value	Unit	Source
gf	-66.58	kJ/mol	Joback Method
hf	-329.04	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	67.91	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	1.641		Crippen Method
mcvol	154.900	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	1176.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1186.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1199.00		NIST Webbook

rinpol	1219.00	NIST Webbook
rinpol	1204.00	NIST Webbook
rinpol	1219.00	NIST Webbook
rinpol	1194.00	NIST Webbook
rinpol	1197.00	NIST Webbook
rinpol	1189.00	NIST Webbook
rinpol	1191.00	NIST Webbook
rinpol	1197.00	NIST Webbook
rinpol	1198.00	NIST Webbook
rinpol	1183.00	NIST Webbook
rinpol	1167.00	NIST Webbook
rinpol	1189.00	NIST Webbook
ripol	1958.00	NIST Webbook
ripol	1930.00	NIST Webbook
ripol	1961.00	NIST Webbook
ripol	1957.00	NIST Webbook
ripol	1958.00	NIST Webbook
ripol	1914.00	NIST Webbook
ripol	1910.00	NIST Webbook
ripol	1903.00	NIST Webbook
ripol	1907.00	NIST Webbook
ripol	1949.00	NIST Webbook
ripol	1925.00	NIST Webbook
ripol	1963.00	NIST Webbook
ripol	1907.00	NIST Webbook
ripol	1958.00	NIST Webbook
ripol	1981.00	NIST Webbook
ripol	1928.00	NIST Webbook
ripol	1945.00	NIST Webbook
ripol	1913.30	NIST Webbook
ripol	1945.00	NIST Webbook
ripol	1963.00	NIST Webbook
ripol	1945.00	NIST Webbook
ripol	1969.00	NIST Webbook
ripol	1910.00	NIST Webbook
ripol	1925.00	NIST Webbook
ripol	1928.00	NIST Webbook
ripol	1927.00	NIST Webbook
ripol	1928.00	NIST Webbook
ripol	1926.00	NIST Webbook
ripol	1949.00	NIST Webbook
ripol	1951.00	NIST Webbook
ripol	1949.00	NIST Webbook
ripol	1914.00	NIST Webbook

ripol	1913.30		NIST Webbook
ripol	1949.00		NIST Webbook
ripol	1949.00		NIST Webbook
ripol	1914.00		NIST Webbook
ripol	1936.00		NIST Webbook
ripol	1903.00		NIST Webbook
ripol	1969.00		NIST Webbook
ripol	1963.00		NIST Webbook
ripol	1969.00		NIST Webbook
tb	606.94	K	Joback Method
tc	785.35	K	Joback Method
tf	322.10	K	Joback Method
vc	0.573	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.39	J/mol×K	606.94	Joback Method
cpg	417.71	J/mol×K	636.67	Joback Method
cpg	428.34	J/mol×K	666.41	Joback Method
cpg	438.34	J/mol×K	696.14	Joback Method
cpg	447.75	J/mol×K	725.88	Joback Method
cpg	456.64	J/mol×K	755.61	Joback Method
cpg	465.04	J/mol×K	785.35	Joback Method
dvisc	0.0332491	Pa×s	322.10	Joback Method
dvisc	0.0043787	Pa×s	369.57	Joback Method
dvisc	0.0009149	Pa×s	417.05	Joback Method
dvisc	0.0002632	Pa×s	464.52	Joback Method
dvisc	0.0000954	Pa×s	511.99	Joback Method
dvisc	0.0000411	Pa×s	559.47	Joback Method
dvisc	0.0000202	Pa×s	606.94	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13741214&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

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