

2-Octanol, 8,8-dimethoxy-2,6-dimethyl-

Other names:	Octanal, 7-hydroxy-3,7-dimethyl-, dimethyl acetal Hydroxycitronellal dimethyl acetal Laurine dimethyl acetal 7-Hydroxy-3,7-dimethyloctanal, dimethyl acetal Citronellal hydrate dimethylacetal Hydroxycitronellal DMA 8,8-Dimethoxy-2,6-dimethyl-2-octanol 1,1-Dimethoxy-3,7-dimethyl-7-octanol NSC 76412 8,8-dimethoxy-2,6-dimethyloctan-2-ol
Inchi:	InChI=1S/C12H26O3/c1-10(9-11(14-4)15-5)7-6-8-12(2,3)13/h10-11,13H,6-9H2,1-5H3
InchiKey:	QCJVKUULZGKQDG-UHFFFAOYSA-N
Formula:	C12H26O3
SMILES:	<chem>COC(CC(C)CCCC(C)(C)O)OC</chem>
Mol. weight [g/mol]:	218.33
CAS:	141-92-4

Physical Properties

Property code	Value	Unit	Source
gf	-298.70	kJ/mol	Joback Method
hf	-726.99	kJ/mol	Joback Method
hfus	18.84	kJ/mol	Joback Method
hvap	61.73	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.573		Crippen Method
mcvol	197.550	ml/mol	McGowan Method
pc	1928.74	kPa	Joback Method
rinpol	1413.70		NIST Webbook
tb	606.87	K	Joback Method
tc	777.03	K	Joback Method
tf	302.70	K	Joback Method
vc	0.740	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.30	J/molxK	606.87	Joback Method
cpg	553.71	J/molxK	635.23	Joback Method
cpg	568.44	J/molxK	663.59	Joback Method
cpg	582.51	J/molxK	691.95	Joback Method
cpg	595.94	J/molxK	720.31	Joback Method
cpg	608.73	J/molxK	748.67	Joback Method
cpg	620.90	J/molxK	777.03	Joback Method
dvisc	0.0171709	Paxs	302.70	Joback Method
dvisc	0.0029451	Paxs	353.39	Joback Method
dvisc	0.0007862	Paxs	404.09	Joback Method
dvisc	0.0002817	Paxs	454.78	Joback Method
dvisc	0.0001240	Paxs	505.48	Joback Method
dvisc	0.0000634	Paxs	556.17	Joback Method
dvisc	0.0000363	Paxs	606.87	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=C141924&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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