7-Octen-4-ol, 2,6-dimethyl-

Other names: 2,6-dimethyloct-7-en-4-ol
Inchi: InChI=1S/C10H20O/c1-5-9(4)7-10(11)6-8(2)3/h5,8-11H,1,6-7H2,2-4H3
InchiKey: GXRZVRGDJQMNEL-UHFFFAOYSA-N
Formula: C10H20O
SMILES: C=CC(C)CC(O)CC(C)C
Mol. weight [g/mol]: 156.27
CAS: 94201-76-0

Physical Properties

Property code	Value	Unit	Source
gf	-22.98	kJ/mol	Joback Method
hf	-292.37	kJ/mol	Joback Method
hfus	13.89	kJ/mol	Joback Method
hvap	52.70	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.606		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
rinpol	1082.00		NIST Webbook
tb	515.74	K	Joback Method
tc	685.98	K	Joback Method
tf	216.52	K	Joback Method
vc	0.578	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.56	J/mol×K	515.74	Joback Method
cpg	376.18	J/mol×K	544.11	Joback Method
cpg	389.21	J/mol×K	572.49	Joback Method
cpg	401.68	J/mol×K	600.86	Joback Method
cpg	413.59	J/mol×K	629.23	Joback Method
cpg	424.97	J/mol×K	657.60	Joback Method
cpg	435.83	J/mol×K	685.98	Joback Method

dvisc	0.3552828	Pa×s	216.52	Joback Method
dvisc	0.0260973	Pa×s	266.39	Joback Method
dvisc	0.0043676	Pa×s	316.26	Joback Method
dvisc	0.0011896	Pa×s	366.13	Joback Method
dvisc	0.0004425	Pa×s	416.00	Joback Method
dvisc	0.0002035	Pa×s	465.87	Joback Method
dvisc	0.0001087	Pa×s	515.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C94201760&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume