

7-Octen-4-ol, 3,6-dimethyl

Inchi:	InChI=1S/C10H20O/c1-5-8(3)7-10(11)9(4)6-2/h5,8-11H,1,6-7H2,2-4H3
InchiKey:	YXFIQIHWISKIICM-UHFFFAOYSA-N
Formula:	C10H20O
SMILES:	C=CC(C)CC(O)C(C)CC
Mol. weight [g/mol]:	156.27

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	1044.00		NIST Webbook
rinpol	1044.00		NIST Webbook
tb	515.74	K	Joback Method
tc	685.98	K	Joback Method
tf	216.52	K	Joback Method
vc	0.578	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.56	J/molxK	515.74	Joback Method
cpg	424.97	J/molxK	657.60	Joback Method
cpg	413.59	J/molxK	629.23	Joback Method
cpg	401.68	J/molxK	600.86	Joback Method
cpg	389.21	J/molxK	572.49	Joback Method
cpg	376.18	J/molxK	544.11	Joback Method
cpg	435.83	J/molxK	685.98	Joback Method
dvisc	0.0001087	Paxs	515.74	Joback Method

dvisc	0.0002035	Paxs	465.87	Joback Method
dvisc	0.0004425	Paxs	416.00	Joback Method
dvisc	0.0011896	Paxs	366.13	Joback Method
dvisc	0.0043676	Paxs	316.26	Joback Method
dvisc	0.0260973	Paxs	266.39	Joback Method
dvisc	0.3552828	Paxs	216.52	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=R324604&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ 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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