2-Methyl-4-penten-2-ol

Other names: CH2=CHCH2C(CH3)2OH
1-Pentene-4-ol, 4-methyl
4-Penten-2-ol, 2-methyl-
2-Methyl-4-penten-2-ol
Inchi: InChI=1S/C6H12O/c1-4-5-6(2,3)7/h4,7H,1,5H2,2-3H3
InchiKey: UYOPRNGQFQWYER-UHFFFAOYSA-N
Formula: C6H12O
SMILES: C=CCC(C)(C)O
Mol. weight [g/mol]: 100.16

Physical Properties

Property code	Value	Unit	Source
hfus	6.69	kJ/mol	Joback Method
hvap	49.88	kJ/mol	Cheméo Relay (1.0)
ie	9.53	eV	Cheméo Relay (1.0)
logp	1.333		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
tb	392.70	K	NIST Webbook
tc	563.98	K	Cheméo Relay (1.0)
tf	206.87	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	194.52	J/mol×K	422.31	Joback Method
cpg	247.07	J/mol×K	596.78	Joback Method
cpg	239.47	J/mol×K	567.71	Joback Method
cpg	231.44	J/mol×K	538.63	Joback Method
cpg	222.96	J/mol×K	509.55	Joback Method
cpg	213.99	J/mol×K	480.47	Joback Method
cpg	204.52	J/mol×K	451.39	Joback Method
dvisc	0.0021949	Pa×s	320.59	Joback Method
dvisc	0.0002738	Pa×s	422.31	Joback Method
dvisc	0.0004854	Pa×s	388.40	Joback Method

dvisc	0.0009604	Pa×s	354.49	Joback Method
dvisc	0.1218411	Pa×s	218.86	Joback Method
dvisc	0.0060999	Pa×s	286.68	Joback Method
dvisc	0.0223014	Pa×s	252.77	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C624975&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

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
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point