3-Penten-2-ol, 4-methyl-

Other names: 4-Methyl-3-penten-2-ol
Inchi: InChI=1S/C6H12O/c1-5(2)4-6(3)7/h4,6-7H,1-3H3
InchiKey: SAOXPNBHKSWHGW-UHFFFAOYSA-N
Formula: C6H12O
SMILES: CC(C)=CC(C)O
Mol. weight [g/mol]: 100.16
CAS: 4325-82-0

Physical Properties

Property code	Value	Unit	Source
gf	-67.95	kJ/mol	Joback Method
hf	-217.25	kJ/mol	Joback Method
hfus	10.75	kJ/mol	Joback Method
hvap	45.28	kJ/mol	Joback Method
log10ws	-1.56		Crippen Method
logp	1.333		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3731.66	kPa	Joback Method
tb	432.46	K	Joback Method
tc	608.14	K	Joback Method
tf	184.16	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.82	J/mol×K	432.46	Joback Method
cpg	201.41	J/mol×K	461.74	Joback Method
cpg	210.55	J/mol×K	491.02	Joback Method
cpg	219.26	J/mol×K	520.30	Joback Method
cpg	227.57	J/mol×K	549.58	Joback Method
cpg	235.49	J/mol×K	578.86	Joback Method
cpg	243.04	J/mol×K	608.14	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=C4325820&Units=SI
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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume