

(Z)-pent-3-en-2-ol

Inchi:

InChI=1S/C5H10O/c1-3-4-5(2)6/h3-6H,1-2H3/b4-3-

InchiKey:

GJYMQFMQRRNLCY-ARJAWSKDSA-N

Formula:

C5H10O

SMILES:

CC=CC(C)O

Mol. weight [g/mol]:

86.13

Physical Properties

Property code	Value	Unit	Source
gf	-67.82	kJ/mol	Joback Method
hf	-186.82	kJ/mol	Joback Method
hfus	9.47	kJ/mol	Joback Method
hvap	42.97	kJ/mol	Joback Method
log10ws	-1.14		Crippen Method
logp	0.943		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	4183.90	kPa	Joback Method
rinpol	667.00		NIST Webbook
tb	409.70	K	Joback Method
tc	583.15	K	Joback Method
tf	186.85	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.35	J/mol×K	409.70	Joback Method
cpg	191.93	J/mol×K	554.24	Joback Method
cpg	185.11	J/mol×K	525.33	Joback Method
cpg	177.96	J/mol×K	496.43	Joback Method
cpg	170.46	J/mol×K	467.52	Joback Method
cpg	162.59	J/mol×K	438.61	Joback Method
cpg	198.43	J/mol×K	583.15	Joback Method
dvisc	0.0002249	Pa×s	409.70	Joback Method
dvisc	0.0004148	Pa×s	372.56	Joback Method

dvisc	0.0008759	Pa×s	335.42	Joback Method
dvisc	0.0022280	Pa×s	298.27	Joback Method
dvisc	0.0073915	Pa×s	261.13	Joback Method
dvisc	0.0364983	Pa×s	223.99	Joback Method
dvisc	0.3400407	Pa×s	186.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R226436&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

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