

3-Methyl-3-hexene

Other names:	3-Hexene, 3-methyl
Inchi:	InChI=1S/C7H14/c1-4-6-7(3)5-2/h6H,4-5H2,1-3H3
InchiKey:	FHHSSXNRVNXTBG-UHFFFAOYSA-N
Formula:	C7H14
SMILES:	CCC=C(C)CC
Mol. weight [g/mol]:	98.19
CAS:	3404-65-7

Physical Properties

Property code	Value	Unit	Source
gf	79.73	kJ/mol	Joback Method
hf	-80.38	kJ/mol	Joback Method
hfus	12.78	kJ/mol	Joback Method
hvap	31.21	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.753		Crippen Method
mcvol	105.190	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	701.00		NIST Webbook
tb	363.60	K	Joback Method
tc	539.41	K	Joback Method
tf	149.61	K	Joback Method
vc	0.408	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.34	J/molxK	363.60	Joback Method
cpg	192.22	J/molxK	392.90	Joback Method
cpg	203.59	J/molxK	422.20	Joback Method
cpg	214.47	J/molxK	451.50	Joback Method
cpg	224.86	J/molxK	480.80	Joback Method
cpg	234.79	J/molxK	510.11	Joback Method
cpg	244.29	J/molxK	539.41	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=C3404657&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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