

(Z)-3-Hexenal

Inchi:	InChI=1S/C6H10O/c1-2-3-4-5-6-7/h3-4,6H,2,5H2,1H3/b4-3-
InchiKey:	GXANMBISFKBPEX-ARJAWSKDSA-N
Formula:	C6H10O
SMILES:	CCC=CCC=O
Mol. weight [g/mol]:	98.14

Physical Properties

Property code	Value	Unit	Source
gf	-19.66	kJ/mol	Joback Method
hf	-135.53	kJ/mol	Joback Method
hfus	13.79	kJ/mol	Joback Method
hvap	35.63	kJ/mol	Joback Method
log10ws	-1.47		Crippen Method
logp	1.542		Crippen Method
mcvol	92.670	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
ripol	803.00		NIST Webbook
ripol	799.00		NIST Webbook
ripol	769.00		NIST Webbook
ripol	799.00		NIST Webbook
ripol	764.00		NIST Webbook
ripol	1146.00		NIST Webbook
ripol	1139.00		NIST Webbook
ripol	1137.00		NIST Webbook
ripol	1146.00		NIST Webbook
ripol	1152.00		NIST Webbook
ripol	1137.00		NIST Webbook
tb	389.50	K	Joback Method
tc	570.95	K	Joback Method
tf	194.30	K	Joback Method
vc	0.368	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	164.69	J/mol×K	389.50	Joback Method
cpg	174.16	J/mol×K	419.74	Joback Method
cpg	183.18	J/mol×K	449.98	Joback Method
cpg	191.76	J/mol×K	480.23	Joback Method
cpg	199.93	J/mol×K	510.47	Joback Method
cpg	207.70	J/mol×K	540.71	Joback Method
cpg	215.09	J/mol×K	570.95	Joback Method
dvisc	0.0038680	Paxs	194.30	Joback Method
dvisc	0.0017894	Paxs	226.83	Joback Method
dvisc	0.0010044	Paxs	259.37	Joback Method
dvisc	0.0006413	Paxs	291.90	Joback Method
dvisc	0.0004480	Paxs	324.43	Joback Method
dvisc	0.0003341	Paxs	356.97	Joback Method
dvisc	0.0002617	Paxs	389.50	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R601184&Units=SI

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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices

tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/76-632-6/Z-3-Hexenal.pdf>

Generated by Cheméo on 2024-04-20 13:47:49.434172377 +0000 UTC m=+15910118.354749687.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.