

2,6-Dimethyl 4-octene

Inchi:	InChI=1S/C10H20/c1-5-10(4)8-6-7-9(2)3/h6,8-10H,5,7H2,1-4H3/b8-6-
InchiKey:	PBPBSFCZFRLBFJ-VURMDHGXSA-N
Formula:	C10H20
SMILES:	CCC(C)C=CCC(C)C
Mol. weight [g/mol]:	140.27
CAS:	6874-30-2

Physical Properties

Property code	Value	Unit	Source
gf	108.66	kJ/mol	Joback Method
hf	-143.07	kJ/mol	Joback Method
hfus	14.81	kJ/mol	Joback Method
hvap	37.04	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.635		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
tb	431.48	K	Joback Method
tc	609.35	K	Joback Method
tf	167.38	K	Joback Method
vc	0.564	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.30	J/molxK	431.48	Joback Method
cpg	316.10	J/molxK	461.12	Joback Method
cpg	331.20	J/molxK	490.77	Joback Method
cpg	345.63	J/molxK	520.41	Joback Method
cpg	359.41	J/molxK	550.06	Joback Method
cpg	372.56	J/molxK	579.70	Joback Method
cpg	385.12	J/molxK	609.35	Joback Method
dvisc	0.0212319	Paxs	167.38	Joback Method
dvisc	0.0041931	Paxs	211.40	Joback Method

dvisc	0.0014484	Paxs	255.41	Joback Method
dvisc	0.0006839	Paxs	299.43	Joback Method
dvisc	0.0003914	Paxs	343.45	Joback Method
dvisc	0.0002543	Paxs	387.46	Joback Method
dvisc	0.0001804	Paxs	431.48	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C6874302&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
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/76-975-6/2-6-Dimethyl-4-octene.pdf>

Generated by Cheméo on 2024-04-17 03:26:54.393862736 +0000 UTC m=+15613663.314440048.

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