

2,6-Dimethyl 2,4-octadiene

Inchi:	InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h6-8,10H,5H2,1-4H3/b8-6-
InchiKey:	YDPXEIXLONTGCJ-VURMDHGXSA-N
Formula:	C10H18
SMILES:	CCC(C)C=CC=C(C)C
Mol. weight [g/mol]:	138.25
CAS:	6874-37-9

Physical Properties

Property code	Value	Unit	Source
gf	182.77	kJ/mol	Joback Method
hf	-30.36	kJ/mol	Joback Method
hfus	17.23	kJ/mol	Joback Method
hvap	37.46	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.555		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2354.20	kPa	Joback Method
tb	435.96	K	Joback Method
tc	621.97	K	Joback Method
tf	163.34	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.01	J/mol×K	435.96	Joback Method
cpg	300.46	J/mol×K	466.96	Joback Method
cpg	315.13	J/mol×K	497.96	Joback Method
cpg	329.05	J/mol×K	528.97	Joback Method
cpg	342.26	J/mol×K	559.97	Joback Method
cpg	354.79	J/mol×K	590.97	Joback Method
cpg	366.69	J/mol×K	621.97	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=C6874379&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

Latest version available from:

<https://www.chemeo.com/cid/76-250-0/2-6-Dimethyl-2-4-octadiene.pdf>

Generated by Cheméo on 2025-12-05 08:28:15.23264058 +0000 UTC m=+4671492.762681245.

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