

1-Decene, 6-methyl

Inchi:	InChI=1S/C11H22/c1-4-6-8-10-11(3)9-7-5-2/h4,11H,1,5-10H2,2-3H3
InchiKey:	VBBAJRTZJNJCQW-UHFFFAOYSA-N
Formula:	C11H22
SMILES:	C=CCCCC(C)CCCC
Mol. weight [g/mol]:	154.29

Physical Properties

Property code	Value	Unit	Source
gf	127.14	kJ/mol	Joback Method
hf	-150.22	kJ/mol	Joback Method
hfus	19.44	kJ/mol	Joback Method
hvap	39.02	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	4.169		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2021.76	kPa	Joback Method
rinsol	1048.00		NIST Webbook
tb	447.32	K	Joback Method
tc	615.61	K	Joback Method
tf	196.97	K	Joback Method
vc	0.626	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.11	J/molxK	447.32	Joback Method
cpg	359.03	J/molxK	475.37	Joback Method
cpg	374.31	J/molxK	503.42	Joback Method
cpg	388.98	J/molxK	531.47	Joback Method
cpg	403.04	J/molxK	559.51	Joback Method
cpg	416.52	J/molxK	587.56	Joback Method
cpg	429.43	J/molxK	615.61	Joback Method
dvisc	0.0091557	Paxs	196.97	Joback Method
dvisc	0.0028404	Paxs	238.69	Joback Method

dvisc	0.0012483	Paxs	280.42	Joback Method
dvisc	0.0006788	Paxs	322.14	Joback Method
dvisc	0.0004245	Paxs	363.87	Joback Method
dvisc	0.0002924	Paxs	405.60	Joback Method
dvisc	0.0002159	Paxs	447.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R46829&Units=SI
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

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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