

1-Undecene, 6,10-dimethyl

Inchi:	InChI=1S/C13H26/c1-5-6-7-10-13(4)11-8-9-12(2)3/h5,12-13H,1,6-11H2,2-4H3
InchiKey:	GXLVWIPRSZUXPM-UHFFFAOYSA-N
Formula:	C13H26
SMILES:	C=CCCCC(C)CCCC(C)C
Mol. weight [g/mol]:	182.35

Physical Properties

Property code	Value	Unit	Source
gf	141.54	kJ/mol	Joback Method
hf	-196.78	kJ/mol	Joback Method
hfus	21.10	kJ/mol	Joback Method
hvap	43.09	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.805		Crippen Method
mcvol	189.730	ml/mol	McGowan Method
pc	1724.59	kPa	Joback Method
rinpol	1208.00		NIST Webbook
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tb	492.64	K	Joback Method
tc	662.14	K	Joback Method
tf	204.51	K	Joback Method
vc	0.733	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.14	J/molxK	492.64	Joback Method
cpg	454.98	J/molxK	520.89	Joback Method
cpg	472.08	J/molxK	549.14	Joback Method
cpg	488.47	J/molxK	577.39	Joback Method
cpg	504.16	J/molxK	605.64	Joback Method
cpg	519.17	J/molxK	633.89	Joback Method
cpg	533.53	J/molxK	662.14	Joback Method
dvisc	0.0150042	Paxs	204.51	Joback Method

dvisc	0.0035670	Paxs	252.53	Joback Method
dvisc	0.0013421	Paxs	300.55	Joback Method
dvisc	0.0006610	Paxs	348.58	Joback Method
dvisc	0.0003865	Paxs	396.60	Joback Method
dvisc	0.0002537	Paxs	444.62	Joback Method
dvisc	0.0001808	Paxs	492.64	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=R47152&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	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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