

1,11-Tridecadiene

Other names:	tridecadiene-2,12
Inchi:	InChI=1S/C13H24/c1-3-5-7-9-11-13-12-10-8-6-4-2/h3-4,6H,1,5,7-13H2,2H3/b6-4+
InchiKey:	NJHSLELGHIYEBI-GQCTYLIASA-N
Formula:	C13H24
SMILES:	C=CCCCCCCCC=CC
Mol. weight [g/mol]:	180.33

Physical Properties

Property code	Value	Unit	Source
gf	226.64	kJ/mol	Joback Method
hf	-69.00	kJ/mol	Joback Method
hfus	28.35	kJ/mol	Joback Method
hvap	43.82	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.869		Crippen Method
mcvol	185.430	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	1312.00		NIST Webbook
rinpol	1312.00		NIST Webbook
ripol	1352.00		NIST Webbook
ripol	1352.00		NIST Webbook
tb	497.68	K	Joback Method
tc	667.66	K	Joback Method
tf	229.43	K	Joback Method
vc	0.725	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.41	J/molxK	497.68	Joback Method
cpg	437.24	J/molxK	526.01	Joback Method
cpg	453.32	J/molxK	554.34	Joback Method
cpg	468.68	J/molxK	582.67	Joback Method
cpg	483.37	J/molxK	611.00	Joback Method

cpg	497.40	J/molxK	639.33	Joback Method
cpg	510.80	J/molxK	667.66	Joback Method
dvisc	0.0050805	Paxs	229.43	Joback Method
dvisc	0.0018182	Paxs	274.14	Joback Method
dvisc	0.0008680	Paxs	318.85	Joback Method
dvisc	0.0004970	Paxs	363.56	Joback Method
dvisc	0.0003216	Paxs	408.26	Joback Method
dvisc	0.0002267	Paxs	452.97	Joback Method
dvisc	0.0001702	Paxs	497.68	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=U130764&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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