

(E)-1,9-Undecadien

Other names:	(Z)-1,9-Undecadien
Inchi:	InChI=1S/C11H20/c1-3-5-7-9-11-10-8-6-4-2/h3-4,6H,1,5,7-11H2,2H3/b6-4+
InchiKey:	BICRHLFMOFSTTN-GQCTYLIASA-N
Formula:	C11H20
SMILES:	C=CCCCCCCC=CC
Mol. weight [g/mol]:	152.28

Physical Properties

Property code	Value	Unit	Source
gf	209.80	kJ/mol	Joback Method
hf	-27.72	kJ/mol	Joback Method
hfus	23.17	kJ/mol	Joback Method
hvap	39.37	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	4.089		Crippen Method
mcvol	157.250	ml/mol	McGowan Method
pc	2104.20	kPa	Joback Method
rinpol	1079.00		NIST Webbook
rinpol	1079.00		NIST Webbook
rinpol	1084.00		NIST Webbook
tb	451.92	K	Joback Method
tc	624.39	K	Joback Method
tf	206.89	K	Joback Method
vc	0.613	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.58	J/molxK	451.92	Joback Method
cpg	342.93	J/molxK	480.66	Joback Method
cpg	357.59	J/molxK	509.41	Joback Method
cpg	371.59	J/molxK	538.15	Joback Method
cpg	384.95	J/molxK	566.90	Joback Method
cpg	397.71	J/molxK	595.64	Joback Method

cpg	409.89	J/mol×K	624.39	Joback Method
dvisc	0.0051066	Paxs	206.89	Joback Method
dvisc	0.0018752	Paxs	247.73	Joback Method
dvisc	0.0009144	Paxs	288.57	Joback Method
dvisc	0.0005328	Paxs	329.40	Joback Method
dvisc	0.0003497	Paxs	370.24	Joback Method
dvisc	0.0002496	Paxs	411.08	Joback Method
dvisc	0.0001893	Paxs	451.92	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R2058&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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