

5-Undecene, 9-methyl-, (Z)-

Other names:	5-Undecene, 9-methyl
Inchi:	InChI=1S/C12H24/c1-4-6-7-8-9-10-11-12(3)5-2/h8-9,12H,4-7,10-11H2,1-3H3/b9-8-
InchiKey:	DZDLDKRWBUNRKA-HJWRWDBZSA-N
Formula:	C12H24
SMILES:	CCCCC=CCCC(C)CC
Mol. weight [g/mol]:	168.32
CAS:	74630-65-2

Physical Properties

Property code	Value	Unit	Source
gf	127.94	kJ/mol	Joback Method
hf	-179.07	kJ/mol	Joback Method
hfus	23.52	kJ/mol	Joback Method
hvap	41.88	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	4.559		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
rinpol	957.00		NIST Webbook
rinpol	957.00		NIST Webbook
tb	477.68	K	Joback Method
tc	649.19	K	Joback Method
tf	204.92	K	Joback Method
vc	0.681	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.97	J/molxK	477.68	Joback Method
cpg	407.97	J/molxK	506.27	Joback Method
cpg	424.25	J/molxK	534.85	Joback Method
cpg	439.83	J/molxK	563.44	Joback Method
cpg	454.73	J/molxK	592.02	Joback Method
cpg	468.97	J/molxK	620.61	Joback Method

cpg	482.59	J/molxK	649.19	Joback Method
dvisc	0.0097879	Paxs	204.92	Joback Method
dvisc	0.0026980	Paxs	250.38	Joback Method
dvisc	0.0011050	Paxs	295.84	Joback Method
dvisc	0.0005741	Paxs	341.30	Joback Method
dvisc	0.0003479	Paxs	386.76	Joback Method
dvisc	0.0002343	Paxs	432.22	Joback Method
dvisc	0.0001701	Paxs	477.68	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=C74630652&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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