3-Undecene, (Z)-

Other names:	(Z)-3-Undecene
	cis-3-Undecene
	3-Undecene, cis-
Inchi:	InChI=1S/C11H22/c1-3-5-7-9-11-10-8-6-4-2/h5,7H,3-4,6,8-11H2,1-2H3/b7-5-
InchiKey:	SDTYFWAQLSIEBH-ALCCZGGFSA-N
Formula:	C11H22
SMILES:	CCC=CCCCCCCC
Mol. weight [g/mol]:	154.29
CAS:	821-97-6

Physical Properties

Property code	Value	Unit	Source
gf	121.96	kJ/mol	Joback Method
hf	-153.15	kJ/mol	Joback Method
hfus	24.45	kJ/mol	Joback Method
hvap	40.04	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.313		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	1085.00		NIST Webbook
rinpol	1091.90		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1096.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1085.00		NIST Webbook
ripol	1151.80		NIST Webbook
ripol	1151.70		NIST Webbook
ripol	1154.50		NIST Webbook
ripol	1152.00		NIST Webbook
ripol	1153.00		NIST Webbook
ripol	1154.00		NIST Webbook
ripol	1152.00		NIST Webbook
ripol	1148.00		NIST Webbook

ripol	1148.00		NIST Webbook
ripol	1149.00		NIST Webbook
ripol	1150.00		NIST Webbook
ripol	1146.00		NIST Webbook
ripol	1151.80		NIST Webbook
ripol	1154.50		NIST Webbook
ripol	1151.70		NIST Webbook
tb	455.24	K	Joback Method
tc	624.41	K	Joback Method
tf	208.65	K	Joback Method
vc	0.631	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.08	J/mol×K	624.41	Joback Method
cpg	344.60	J/mol×K	455.24	Joback Method
cpg	360.43	J/mol×K	483.44	Joback Method
cpg	375.59	J/mol×K	511.63	Joback Method
cpg	390.12	J/mol×K	539.83	Joback Method
cpg	404.02	J/mol×K	568.02	Joback Method
cpg	417.34	J/mol×K	596.22	Joback Method
dvisc	0.0001891	Pa×s	455.24	Joback Method
dvisc	0.0058574	Pa×s	208.65	Joback Method
dvisc	0.0020642	Pa×s	249.75	Joback Method
dvisc	0.0009768	Pa×s	290.85	Joback Method
dvisc	0.0005563	Pa×s	331.95	Joback Method
dvisc	0.0003587	Pa×s	373.04	Joback Method
dvisc	0.0002523	Pa×s	414.14	Joback Method
hvapt	52.30	kJ/mol	363.00	NIST Webbook

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=C821976&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvapt:	Enthalpy of vaporization at a given temperature
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