

4-Decene, 8-methyl-, (E)-

Inchi:	InChI=1S/C11H22/c1-4-6-7-8-9-10-11(3)5-2/h7-8,11H,4-6,9-10H2,1-3H3/b8-7+
InchiKey:	SYUIBEDHXSMSQ-BQYQJAHWSA-N
Formula:	C11H22
SMILES:	CCCC=CCCC(C)CC
Mol. weight [g/mol]:	154.29
CAS:	62338-50-5

Physical Properties

Property code	Value	Unit	Source
gf	119.52	kJ/mol	Joback Method
hf	-158.43	kJ/mol	Joback Method
hfus	20.93	kJ/mol	Joback Method
hvap	39.65	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	4.169		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2040.07	kPa	Joback Method
tb	454.80	K	Joback Method
tc	627.58	K	Joback Method
tf	193.65	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.65	J/mol×K	454.80	Joback Method
cpg	419.13	J/mol×K	598.78	Joback Method
cpg	405.53	J/mol×K	569.98	Joback Method
cpg	391.31	J/mol×K	541.19	Joback Method
cpg	376.44	J/mol×K	512.39	Joback Method
cpg	360.89	J/mol×K	483.60	Joback Method
cpg	432.12	J/mol×K	627.58	Joback Method
dvisc	0.0001802	Pa×s	454.80	Joback Method
dvisc	0.0002474	Pa×s	411.27	Joback Method

dvisc	0.0003659	Pa×s	367.75	Joback Method
dvisc	0.0006011	Pa×s	324.23	Joback Method
dvisc	0.0011521	Pa×s	280.70	Joback Method
dvisc	0.0028036	Pa×s	237.18	Joback Method
dvisc	0.0101752	Pa×s	193.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62338505&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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