

1-Dodecene, 8-ethyl

Inchi:	InChI=1S/C14H28/c1-4-7-9-10-11-13-14(6-3)12-8-5-2/h4,14H,1,5-13H2,2-3H3
InchiKey:	QUHZHYSKODDZSZ-UHFFFAOYSA-N
Formula:	C14H28
SMILES:	C=CCCCCCC(CC)CCCC
Mol. weight [g/mol]:	196.37

Physical Properties

Property code	Value	Unit	Source
gf	152.40	kJ/mol	Joback Method
hf	-212.14	kJ/mol	Joback Method
hfus	27.21	kJ/mol	Joback Method
hvap	45.70	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	5.339		Crippen Method
mvol	203.820	ml/mol	McGowan Method
pc	1584.75	kPa	Joback Method
rinpol	1331.00		NIST Webbook
tb	515.96	K	Joback Method
tc	681.17	K	Joback Method
tf	230.78	K	Joback Method
vc	0.794	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.73	J/molxK	515.96	Joback Method
cpg	504.78	J/molxK	543.49	Joback Method
cpg	522.09	J/molxK	571.03	Joback Method
cpg	538.70	J/molxK	598.56	Joback Method
cpg	554.62	J/molxK	626.10	Joback Method
cpg	569.86	J/molxK	653.63	Joback Method
cpg	584.47	J/molxK	681.17	Joback Method
dvisc	0.0081794	Paxs	230.78	Joback Method
dvisc	0.0025008	Paxs	278.31	Joback Method

dvisc	0.0010804	Paxs	325.84	Joback Method
dvisc	0.0005779	Paxs	373.37	Joback Method
dvisc	0.0003561	Paxs	420.90	Joback Method
dvisc	0.0002420	Paxs	468.43	Joback Method
dvisc	0.0001766	Paxs	515.96	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R46883&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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