

Nonane, 5-ethyl

Inchi:	InChI=1S/C11H24/c1-4-7-9-11(6-3)10-8-5-2/h11H,4-10H2,1-3H3
InchiKey:	QPOVZYGNFWRMJE-UHFFFAOYSA-N
Formula:	C11H24
SMILES:	CCCCC(CC)CCCC
Mol. weight [g/mol]:	156.31

Physical Properties

Property code	Value	Unit	Source
gf	39.30	kJ/mol	Joback Method
hf	-275.65	kJ/mol	Joback Method
hfus	20.72	kJ/mol	Joback Method
hvap	39.69	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	4.393		Crippen Method
mvol	165.850	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
rinpol	1041.00		NIST Webbook
tb	450.64	K	Joback Method
tc	615.77	K	Joback Method
tf	198.73	K	Joback Method
vc	0.645	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.10	J/molxK	450.64	Joback Method
cpg	376.48	J/molxK	478.16	Joback Method
cpg	392.24	J/molxK	505.68	Joback Method
cpg	407.41	J/molxK	533.20	Joback Method
cpg	421.98	J/molxK	560.73	Joback Method
cpg	435.99	J/molxK	588.25	Joback Method
cpg	449.44	J/molxK	615.77	Joback Method
dvisc	0.0105797	Paxs	198.73	Joback Method
dvisc	0.0031400	Paxs	240.72	Joback Method

dvisc	0.0013369	Paxs	282.70	Joback Method
dvisc	0.0007098	Paxs	324.69	Joback Method
dvisc	0.0004357	Paxs	366.67	Joback Method
dvisc	0.0002956	Paxs	408.65	Joback Method
dvisc	0.0002156	Paxs	450.64	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R9380&Units=SI

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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