

Nonane, 5-propyl-

Other names:	5-Propyl-nonane
Inchi:	InChI=1S/C12H26/c1-4-7-10-12(9-6-3)11-8-5-2/h12H,4-11H2,1-3H3
InchiKey:	ISHSSTRAYNPQFX-UHFFFAOYSA-N
Formula:	C12H26
SMILES:	CCCCC(CCC)CCCC
Mol. weight [g/mol]:	170.33
CAS:	998-35-6

Physical Properties

Property code	Value	Unit	Source
gf	47.72	kJ/mol	Joback Method
hf	-296.29	kJ/mol	Joback Method
hfus	23.31	kJ/mol	Joback Method
hvap	41.92	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	4.783		Crippen Method
mcvol	179.940	ml/mol	McGowan Method
pc	1792.42	kPa	Joback Method
tb	473.52	K	Joback Method
tc	637.74	K	Joback Method
tf	210.00	K	Joback Method
vc	0.702	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.90	J/mol×K	473.52	Joback Method
cpg	424.06	J/mol×K	500.89	Joback Method
cpg	440.58	J/mol×K	528.26	Joback Method
cpg	456.45	J/mol×K	555.63	Joback Method
cpg	471.71	J/mol×K	583.00	Joback Method
cpg	486.36	J/mol×K	610.37	Joback Method
cpg	500.43	J/mol×K	637.74	Joback Method
dvisc	0.0101808	Paxs	210.00	Joback Method

dvisc	0.0030132	Paxs	253.92	Joback Method
dvisc	0.0012770	Paxs	297.84	Joback Method
dvisc	0.0006749	Paxs	341.76	Joback Method
dvisc	0.0004124	Paxs	385.68	Joback Method
dvisc	0.0002787	Paxs	429.60	Joback Method
dvisc	0.0002026	Paxs	473.52	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=C998356&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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