

Heptadecane, 8,8-dipentyl-

Other names:	8,8-Dipentylheptadecane
Inchi:	InChI=1S/C27H56/c1-5-9-13-15-16-18-22-26-27(23-19-11-7-3,24-20-12-8-4)25-21-17-14
InchiKey:	FFNPILCLWBBLT-UHFFFAOYSA-N
Formula:	C27H56
SMILES:	CCCCCCCCC(CCCCC)(CCCCC)CCCCCCC
Mol. weight [g/mol]:	380.73
CAS:	55282-28-5

Physical Properties

Property code	Value	Unit	Source
gf	179.30	kJ/mol	Joback Method
hf	-609.36	kJ/mol	Joback Method
hfus	58.27	kJ/mol	Joback Method
hvap	128.10 ± 1.80	kJ/mol	NIST Webbook
log10ws	-10.88		Crippen Method
logp	10.635		Crippen Method
mcvol	391.290	ml/mol	McGowan Method
pc	695.81	kPa	Joback Method
tb	813.93	K	Joback Method
tc	996.49	K	Joback Method
tf	396.47	K	Joback Method
vc	1.536	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1282.03	J/mol×K	813.93	Joback Method
cpg	1306.42	J/mol×K	844.36	Joback Method
cpg	1329.60	J/mol×K	874.78	Joback Method
cpg	1351.65	J/mol×K	905.21	Joback Method
cpg	1372.63	J/mol×K	935.64	Joback Method
cpg	1392.59	J/mol×K	966.07	Joback Method
cpg	1411.62	J/mol×K	996.49	Joback Method
dvisc	0.0016537	Pa×s	396.47	Joback Method

dvisc	0.0005159	Pa×s	466.05	Joback Method
dvisc	0.0002178	Pa×s	535.62	Joback Method
dvisc	0.0001122	Pa×s	605.20	Joback Method
dvisc	0.0000662	Pa×s	674.78	Joback Method
dvisc	0.0000431	Pa×s	744.35	Joback Method
dvisc	0.0000302	Pa×s	813.93	Joback Method

Sources

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=C55282285&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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