

Heptacosane, 1-chloro-

Inchi:	InChI=1S/C27H55Cl/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
InchiKey:	SHDKPHGPBNHILS-UHFFFAOYSA-N
Formula:	C27H55Cl
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCl
Mol. weight [g/mol]:	415.18
CAS:	62016-79-9

Physical Properties

Property code	Value	Unit	Source
gf	164.53	kJ/mol	Joback Method
hf	-616.35	kJ/mol	Joback Method
hfus	69.88	kJ/mol	Joback Method
hvap	80.08	kJ/mol	Joback Method
log10ws	-11.28		Crippen Method
logp	10.998		Crippen Method
mcvol	403.530	ml/mol	McGowan Method
pc	675.70	kPa	Joback Method
tb	854.59	K	Joback Method
tc	1047.70	K	Joback Method
tf	423.97	K	Joback Method
vc	1.597	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1321.28	J/mol×K	854.59	Joback Method
cpg	1429.78	J/mol×K	1015.51	Joback Method
cpg	1410.37	J/mol×K	983.33	Joback Method
cpg	1389.89	J/mol×K	951.14	Joback Method
cpg	1368.25	J/mol×K	918.96	Joback Method
cpg	1345.40	J/mol×K	886.77	Joback Method
cpg	1448.15	J/mol×K	1047.70	Joback Method
dvisc	0.0000323	Pa×s	854.59	Joback Method
dvisc	0.0000446	Pa×s	782.82	Joback Method

dvisc	0.0000659	Pa×s	711.05	Joback Method
dvisc	0.0001062	Pa×s	639.28	Joback Method
dvisc	0.0001932	Pa×s	567.51	Joback Method
dvisc	0.0004180	Pa×s	495.74	Joback Method
dvisc	0.0011738	Pa×s	423.97	Joback Method

Sources

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=C62016799&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

Latest version available from:

<https://www.chemeo.com/cid/72-115-4/Heptacosane-1-chloro.pdf>

Generated by Cheméo on 2025-12-05 12:50:22.071140527 +0000 UTC m=+4687219.601181182.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.