

1-Chloro-9-phenylnonane

Inchi:	InChI=1S/C15H23Cl/c16-14-10-5-3-1-2-4-7-11-15-12-8-6-9-13-15/h6,8-9,12-13H,1-5,7,1
InchiKey:	KFJDHWCTDWNJTP-UHFFFAOYSA-N
Formula:	C15H23Cl
SMILES:	ClCCCCCCCCCc1ccccc1
Mol. weight [g/mol]:	238.80
CAS:	27175-81-1

Physical Properties

Property code	Value	Unit	Source
gf	175.90	kJ/mol	Joback Method
hf	-132.14	kJ/mol	Joback Method
hfus	32.84	kJ/mol	Joback Method
hvap	55.64	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	5.199		Crippen Method
mcvol	210.690	ml/mol	McGowan Method
pc	1789.39	kPa	Joback Method
tb	606.71	K	Joback Method
tc	802.53	K	Joback Method
tf	315.15	K	Joback Method
vc	0.817	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.83	J/mol×K	606.71	Joback Method
cpg	604.69	J/mol×K	769.90	Joback Method
cpg	590.70	J/mol×K	737.26	Joback Method
cpg	575.86	J/mol×K	704.62	Joback Method
cpg	560.13	J/mol×K	671.98	Joback Method
cpg	543.46	J/mol×K	639.35	Joback Method
cpg	617.88	J/mol×K	802.53	Joback Method
dvisc	0.0001581	Pa×s	606.71	Joback Method
dvisc	0.0002085	Pa×s	558.12	Joback Method

dvisc	0.0002898	Pa×s	509.52	Joback Method
dvisc	0.0004319	Pa×s	460.93	Joback Method
dvisc	0.0007069	Pa×s	412.34	Joback Method
dvisc	0.0013201	Pa×s	363.74	Joback Method
dvisc	0.0029885	Pa×s	315.15	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C27175811&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

Latest version available from:

<https://www.chemeo.com/cid/46-581-6/1-Chloro-9-phenylnonane.pdf>

Generated by Cheméo on 2025-12-25 00:34:36.972938813 +0000 UTC m=+6371074.502979466.

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