

# o-Chlorobenzylidene-2-methylphenylacetonitrile

<b>Inchi:</b>	InChI=1S/C16H12ClN/c1-12-6-2-4-8-15(12)14(11-18)10-13-7-3-5-9-16(13)17/h2-10H,1H
<b>InchiKey:</b>	SHNBVWVKWLZEON-GXDHUFHOSA-N
<b>Formula:</b>	C16H12ClN
<b>SMILES:</b>	<chem>Cc1ccccc1C(C#N)=Cc1ccccc1Cl</chem>
<b>Mol. weight [g/mol]:</b>	253.73
<b>CAS:</b>	31881-09-1

## Physical Properties

Property code	Value	Unit	Source
gf	482.32	kJ/mol	Joback Method
hf	333.12	kJ/mol	Joback Method
hfus	29.10	kJ/mol	Joback Method
hvap	71.99	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	4.713		Crippen Method
mcvol	198.100	ml/mol	McGowan Method
pc	2210.37	kPa	Joback Method
tb	772.35	K	Joback Method
tc	1031.54	K	Joback Method
tf	423.83	K	Joback Method
vc	0.771	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.28	J/mol×K	772.35	Joback Method
cpg	511.13	J/mol×K	815.55	Joback Method
cpg	522.93	J/mol×K	858.75	Joback Method
cpg	533.79	J/mol×K	901.94	Joback Method
cpg	543.83	J/mol×K	945.14	Joback Method
cpg	553.14	J/mol×K	988.34	Joback Method
cpg	561.86	J/mol×K	1031.54	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C31881091&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31881091&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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