

# 1-Chloro-2,4-diisopropylbenzene

<b>Inchi:</b>	InChI=1S/C12H17Cl/c1-8(2)10-5-6-12(13)11(7-10)9(3)4/h5-9H,1-4H3
<b>InchiKey:</b>	COVLIGFZJREENS-UHFFFAOYSA-N
<b>Formula:</b>	C12H17Cl
<b>SMILES:</b>	CC(C)c1ccc(Cl)c(C(C)C)c1
<b>Mol. weight [g/mol]:</b>	196.72
<b>CAS:</b>	82146-18-7

## Physical Properties

Property code	Value	Unit	Source
gf	126.50	kJ/mol	Joback Method
hf	-103.72	kJ/mol	Joback Method
hfl	-163.50 ± 3.20	kJ/mol	NIST Webbook
hfus	17.25	kJ/mol	Joback Method
hvap	49.52	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	4.587		Crippen Method
mcvol	168.420	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
tb	547.15	K	Joback Method
tc	762.69	K	Joback Method
tf	276.38	K	Joback Method
vc	0.636	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	377.33	J/mol×K	547.15	Joback Method
cpg	393.50	J/mol×K	583.07	Joback Method
cpg	408.76	J/mol×K	619.00	Joback Method
cpg	423.15	J/mol×K	654.92	Joback Method
cpg	436.70	J/mol×K	690.85	Joback Method
cpg	449.44	J/mol×K	726.77	Joback Method
cpg	461.40	J/mol×K	762.69	Joback Method
dvisc	0.0031791	Paxs	276.38	Joback Method

dvisc	0.0013976	Paxs	321.51	Joback Method
dvisc	0.0007522	Paxs	366.64	Joback Method
dvisc	0.0004637	Paxs	411.76	Joback Method
dvisc	0.0003145	Paxs	456.89	Joback Method
dvisc	0.0002288	Paxs	502.02	Joback Method
dvisc	0.0001754	Paxs	547.15	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=C82146187&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C82146187&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase 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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