

# Chlorbenside

<b>Other names:</b>	Benzene, 1-chloro-4-[[[(4-chlorophenyl)methyl]thio]-Sulfide, p-chlorobenzyl p-chlorophenyl p-Chlorobenzyl p-chlorophenyl sulfide p-Chlorobenzyl p-chlorophenyl sulphide Chloracid Chlorbensid (German) Chlorbenzide Chlorocid Chlorparacide Chlorsulphacide CP 20 Mitox 4-Chlorobenzyl 4-Chlorophenyl sulfide (4-Chloor-benzyl)-(4-chloor-fenyl)-sulfide (4-Chlor-benzyl)-(4-chlor-phenyl)-sulfid (4-Cloro-benzil)-(4-cloro-fenil)-solfuro p,p'-Dichlorodiphenyl sulfide Chloorbenzide Chlorbensid Chlorbenxide Chlorocide Chloroparacide Chlorosulfacide ENT 20,696 HRS 860 RD 2195 Sulfure de 4-chlorobenzyle et de 4-chlorophenyle 1-Chloro-4-(((4-chlorophenyl)methyl)thio)benzene 4-Chlorobenzyl 4-chlorophenyl sulphide 4-Chlorophenyl 4'-chlorobenzyl sulfide Chlorobenside NSC 33078
<b>Inchi:</b>	InChI=1S/C13H10Cl2S/c14-11-3-1-10(2-4-11)9-16-13-7-5-12(15)6-8-13/h1-8H,9H2
<b>InchiKey:</b>	ZHLKXBJTJHRTTE-UHFFFAOYSA-N
<b>Formula:</b>	C13H10Cl2S
<b>SMILES:</b>	<chem>Clc1ccc(CSc2ccc(Cl)cc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	269.19
<b>CAS:</b>	103-17-3

# Physical Properties

Property code	Value	Unit	Source
gf	273.40	kJ/mol	Joback Method
hf	148.86	kJ/mol	Joback Method
hfus	29.25	kJ/mol	Joback Method
hvap	66.00	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	5.286		Crippen Method
mcvol	187.340	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
rinpol	2045.00		NIST Webbook
rinpol	2045.00		NIST Webbook
rinpol	2040.00		NIST Webbook
tb	703.80	K	Joback Method
tc	974.79	K	Joback Method
tf	343.80 ± 0.20	K	NIST Webbook
tf	344.50 ± 0.20	K	NIST Webbook
vc	0.700	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.71	J/mol×K	703.80	Joback Method
cpg	437.01	J/mol×K	748.96	Joback Method
cpg	449.04	J/mol×K	794.13	Joback Method
cpg	459.89	J/mol×K	839.29	Joback Method
cpg	469.63	J/mol×K	884.46	Joback Method
cpg	478.34	J/mol×K	929.62	Joback Method
cpg	486.08	J/mol×K	974.79	Joback Method
hfust	32.22	kJ/mol	343.80	NIST Webbook
hfust	32.22	kJ/mol	343.80	NIST Webbook
sfust	96.55	J/mol×K	343.80	NIST Webbook

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=C103173&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C103173&amp;Units=SI</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>rinpol:</b>	Non-polar retention indices
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/23-262-5/Chlorbenside.pdf>

Generated by Cheméo on 2024-04-27 09:28:30.739107741 +0000 UTC m=+16499359.659685056.

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