

# 1-bromo, 3-chloro-dibenzo-dioxin

<b>Inchi:</b>	InChI=1S/C12H6BrClO2/c13-8-5-7(14)6-11-12(8)16-10-4-2-1-3-9(10)15-11/h1-6H
<b>InchiKey:</b>	BSEWBOMWLZBKQD-UHFFFAOYSA-N
<b>Formula:</b>	C12H6BrClO2
<b>SMILES:</b>	Clc1cc(Br)c2c(c1)Oc1cccc1O2
<b>Mol. weight [g/mol]:</b>	297.53

## Physical Properties

Property code	Value	Unit	Source
gf	147.17	kJ/mol	Joback Method
hf	-17.94	kJ/mol	Joback Method
hfus	37.97	kJ/mol	Joback Method
hvap	69.40	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	5.000		Crippen Method
mcvol	163.040	ml/mol	McGowan Method
pc	3829.28	kPa	Joback Method
rinpol	2043.00		NIST Webbook
rinpol	2043.00		NIST Webbook
tb	711.87	K	Joback Method
tc	982.80	K	Joback Method
tf	496.48	K	Joback Method
vc	0.611	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.30	J/molxK	711.87	Joback Method
cpg	375.05	J/molxK	757.02	Joback Method
cpg	383.97	J/molxK	802.18	Joback Method
cpg	392.21	J/molxK	847.33	Joback Method
cpg	399.90	J/molxK	892.49	Joback Method
cpg	407.19	J/molxK	937.64	Joback Method
cpg	414.24	J/molxK	982.80	Joback Method
dvisc	0.0014752	Paxs	496.48	Joback Method

dvisc	0.0011662	Paxs	532.38	Joback Method
dvisc	0.0009497	Paxs	568.28	Joback Method
dvisc	0.0007925	Paxs	604.17	Joback Method
dvisc	0.0006749	Paxs	640.07	Joback Method
dvisc	0.0005847	Paxs	675.97	Joback Method
dvisc	0.0005139	Paxs	711.87	Joback Method

## Sources

<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=R172671&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R172671&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>

## Legend

<b>cp<sub>g</sub>:</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>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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/124-746-6/1-bromo-3-chloro-dibenzo-dioxin.pdf>

Generated by Cheméo on 2024-04-18 08:47:44.994640837 +0000 UTC m=+15719313.915218167.

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