

# Dibenzodioxin, 4-bromo-, 1,2,7,8-tetrachloro-

<b>Other names:</b>	4-bromo-1,2,7,8-tetrachloro-dibenzo-p-dioxin Dibenzodioxin, 4-bromo-, 1,2,8,9-tetrachloro-
<b>Inchi:</b>	InChI=1S/C12H3BrCl4O2/c13-4-1-7(16)10(17)12-11(4)18-8-2-5(14)6(15)3-9(8)19-12/h1-
<b>InchiKey:</b>	LIJLFIDUAFUCRA-UHFFFAOYSA-N
<b>Formula:</b>	C12H3BrCl4O2
<b>SMILES:</b>	Clc1cc2c(cc1Cl)Oc1c(Cl)c(Cl)cc(Br)c1O2
<b>Mol. weight [g/mol]:</b>	400.87

## Physical Properties

Property code	Value	Unit	Source
gf	82.49	kJ/mol	Joback Method
hf	-99.57	kJ/mol	Joback Method
hfus	49.39	kJ/mol	Joback Method
hvap	84.54	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	6.961		Crippen Method
mcvol	199.760	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
rinpol	2612.00		NIST Webbook
rinpol	2612.00		NIST Webbook
rinpol	2612.00		NIST Webbook
rinpol	2627.00		NIST Webbook
tb	839.10	K	Joback Method
tc	1115.62	K	Joback Method
tf	623.80	K	Joback Method
vc	0.757	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.99	J/molxK	839.10	Joback Method
cpg	441.80	J/molxK	1069.53	Joback Method
cpg	435.68	J/molxK	1023.45	Joback Method
cpg	429.57	J/molxK	977.36	Joback Method

cpg	423.34	J/molxK	931.27	Joback Method
cpg	416.86	J/molxK	885.19	Joback Method
cpg	448.04	J/molxK	1115.62	Joback Method
dvisc	0.0004037	Paxs	839.10	Joback Method
dvisc	0.0004512	Paxs	803.22	Joback Method
dvisc	0.0005097	Paxs	767.33	Joback Method
dvisc	0.0005825	Paxs	731.45	Joback Method
dvisc	0.0006751	Paxs	695.57	Joback Method
dvisc	0.0007950	Paxs	659.68	Joback Method
dvisc	0.0009540	Paxs	623.80	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=R172220&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R172220&amp;Units=SI</a>
<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>

## 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>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>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

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