

# 1,2,8,9-tetrabromo-dibenzo-dioxin

<b>Inchi:</b>	InChI=1S/C12H4Br4O2/c13-5-1-3-7-11(9(5)15)18-12-8(17-7)4-2-6(14)10(12)16/h1-4H
<b>InchiKey:</b>	FJYATKRZOCTZBO-UHFFFAOYSA-N
<b>Formula:</b>	C12H4Br4O2
<b>SMILES:</b>	BrC1ccc2c(c1Br)Oc1c(ccc(Br)c1Br)O2
<b>Mol. weight [g/mol]:</b>	499.77

## Physical Properties

Property code	Value	Unit	Source
gf	182.80	kJ/mol	Joback Method
hf	53.85	kJ/mol	Joback Method
hfus	48.85	kJ/mol	Joback Method
hvap	85.64	kJ/mol	Joback Method
log10ws	-7.64		Crippen Method
logp	6.635		Crippen Method
mcvol	203.300	ml/mol	McGowan Method
pc	5087.49	kPa	Joback Method
rinpol	2894.00		NIST Webbook
rinpol	2894.00		NIST Webbook
tb	882.88	K	Joback Method
tc	1180.48	K	Joback Method
tf	671.00	K	Joback Method
vc	0.748	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.07	J/mol×K	882.88	Joback Method
cpg	419.55	J/mol×K	932.48	Joback Method
cpg	427.01	J/mol×K	982.08	Joback Method
cpg	434.69	J/mol×K	1031.68	Joback Method
cpg	442.80	J/mol×K	1081.28	Joback Method
cpg	451.58	J/mol×K	1130.88	Joback Method
cpg	461.26	J/mol×K	1180.48	Joback Method
dvisc	0.0008138	Paxs	671.00	Joback Method

dvisc	0.0006851	Paxs	706.31	Joback Method
dvisc	0.0005863	Paxs	741.63	Joback Method
dvisc	0.0005088	Paxs	776.94	Joback Method
dvisc	0.0004471	Paxs	812.25	Joback Method
dvisc	0.0003971	Paxs	847.57	Joback Method
dvisc	0.0003561	Paxs	882.88	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=R172413&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R172413&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>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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