

# Phthalide, 4,5,6,7-tetrachloro-

<b>Other names:</b>	Bayer 96610 KF-32 Rabcide 4,5,6,7-Tetrachlorophthalide 4,5,6,7-Tetrachloro-2-benzofuran-1(3H)-one Fthalide Tetrachlorophthalide 1(3H)-Isobenzofuranone, 4,5,6,7-tetrachloro-phthalide
<b>Inchi:</b>	InChI=1S/C8H2Cl4O2/c9-4-2-1-14-8(13)3(2)5(10)7(12)6(4)11/h1H2
<b>InchiKey:</b>	NMWKWBPNKPGATC-UHFFFAOYSA-N
<b>Formula:</b>	C8H2Cl4O2
<b>SMILES:</b>	O=C1OCc2c(Cl)c(Cl)c(Cl)c(Cl)c21
<b>Mol. weight [g/mol]:</b>	271.91
<b>CAS:</b>	27355-22-2

## Physical Properties

Property code	Value	Unit	Source
gf	-107.23	kJ/mol	Joback Method
hf	-268.79	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	65.51	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	3.971		Crippen Method
mcvol	145.360	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
rinpol	2049.00		NIST Webbook
ripol	3079.00		NIST Webbook
tb	689.92	K	Joback Method
tc	954.43	K	Joback Method
tf	505.59	K	Joback Method
vc	0.557	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.00	J/mol×K	689.92	Joback Method
cpg	290.37	J/mol×K	734.00	Joback Method
cpg	297.17	J/mol×K	778.09	Joback Method
cpg	303.40	J/mol×K	822.17	Joback Method
cpg	309.09	J/mol×K	866.26	Joback Method
cpg	314.24	J/mol×K	910.34	Joback Method
cpg	318.88	J/mol×K	954.43	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C27355222&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27355222&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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>ripol:</b>	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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