

# Tetrasul

<b>Other names:</b>	Benzene, 1,2,4-trichloro-5-[(4-chlorophenyl)thio]- Sulfide, p-chlorophenyl 2,4,5-trichlorophenyl p-Chlorophenyl 2,4,5-trichlorophenyl sulfide Animert Animert V-10 Animert V-10K Animert V-101 V 101 2,4,4',5-Tetrachlorodiphenyl sulphide 4-Chlorophenyl 2,4,5-trichlorophenyl sulfide ENT 27,115 Philips-duphar V-101 3,4,6,4'-Tetrachlor-diphenylsulfid 2,4,5,4'-Tetrachlorodiphenyl sulfide 1,2,4-Trichloro-5-(4-(chlorophenyl)thio)benzene
<b>Inchi:</b>	InChI=1S/C12H6Cl4S/c13-7-1-3-8(4-2-7)17-12-6-10(15)9(14)5-11(12)16/h1-6H
<b>InchiKey:</b>	QUWSDLYBOVGOCW-UHFFFAOYSA-N
<b>Formula:</b>	C12H6Cl4S
<b>SMILES:</b>	Clc1ccc(Sc2cc(Cl)c(Cl)cc2Cl)cc1
<b>Mol. weight [g/mol]:</b>	324.05
<b>CAS:</b>	2227-13-6

## Physical Properties

Property code	Value	Unit	Source
gf	221.86	kJ/mol	Joback Method
hf	115.08	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	73.86	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	6.451		Crippen Method
mcvol	197.730	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
tb	765.74	K	Joback Method
tc	1048.09	K	Joback Method
tf	482.00	K	Joback Method
vc	0.742	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.43	J/mol×K	765.74	Joback Method
cpg	420.17	J/mol×K	812.80	Joback Method
cpg	428.84	J/mol×K	859.86	Joback Method
cpg	436.50	J/mol×K	906.91	Joback Method
cpg	443.20	J/mol×K	953.97	Joback Method
cpg	449.00	J/mol×K	1001.03	Joback Method
cpg	453.96	J/mol×K	1048.09	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=C2227136&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2227136&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>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>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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