

# Phenol, 2,4-dichloro-, benzenesulfonate

<b>Other names:</b>	EM 923 Genite Genite EM-923 Genite 923 Genitol 923 2,4-Dichlorophenyl benzenesulfonate 2,4-Dichlorophenyl benzenesulphonate 923 Benzenesulfonic acid, 2,4-dichlorophenyl ester Compound 923 DPBS Genite-R99 Genitol 2,4-Dichlorophenyl ester of benzenesulfonic acid Benzenesulphonic acid, 2,4-dichlorophenyl ester 2,4-Dichlorofenylester kyseliny benzensulfonove 2,4-Dichlorophenol, benzenesulfonate Latka 923 Genite (insecticide) NSC 27323
<b>Inchi:</b>	InChI=1S/C12H8Cl2O3S/c13-9-6-7-12(11(14)8-9)17-18(15,16)10-4-2-1-3-5-10/h1-8H
<b>InchiKey:</b>	OZFAPGSSMRRTDW-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2O3S
<b>SMILES:</b>	O=S(=O)(Oc1ccc(Cl)cc1Cl)c1ccccc1
<b>Mol. weight [g/mol]:</b>	303.16
<b>CAS:</b>	97-16-5

## Physical Properties

Property code	Value	Unit	Source
gf	-341.68	kJ/mol	Joback Method
hf	-457.94	kJ/mol	Joback Method
hfus	35.10	kJ/mol	Joback Method
hvap	78.00	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.761		Crippen Method
mvol	190.860	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method

rropol	2043.00		NIST Webbook
ripol	3231.00		NIST Webbook
tb	682.34	K	Joback Method
tc	925.06	K	Joback Method
tf	423.51	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.12	J/mol×K	682.34	Joback Method
cpg	444.55	J/mol×K	722.79	Joback Method
cpg	455.83	J/mol×K	763.25	Joback Method
cpg	465.98	J/mol×K	803.70	Joback Method
cpg	475.01	J/mol×K	844.15	Joback Method
cpg	482.93	J/mol×K	884.60	Joback Method
cpg	489.76	J/mol×K	925.06	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=C97165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C97165&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>

## 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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