

# 1,4-Dithiin, 2,5-bis(4-chlorophenyl)-

<b>Other names:</b>	p-Dithiin, 2,5-bis(p-chlorophenyl)-
<b>Inchi:</b>	InChI=1S/C16H10Cl2S2/c17-13-5-1-11(2-6-13)15-9-20-16(10-19-15)12-3-7-14(18)8-4-12
<b>InchiKey:</b>	YEISRKIONCELHP-UHFFFAOYSA-N
<b>Formula:</b>	C16H10Cl2S2
<b>SMILES:</b>	<chem>Clc1ccc(C2=CSC(c3ccc(Cl)cc3)=CS2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	337.29
<b>CAS:</b>	2244-77-1

## Physical Properties

Property code	Value	Unit	Source
gf	418.08	kJ/mol	Joback Method
hf	302.87	kJ/mol	Joback Method
hfus	32.64	kJ/mol	Joback Method
hvap	80.13	kJ/mol	Joback Method
log10ws	-7.78		Crippen Method
logp	6.770		Crippen Method
mcvol	226.500	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
rinpol	360.90		NIST Webbook
rinpol	360.90		NIST Webbook
tb	831.82	K	Joback Method
tc	1135.18	K	Joback Method
tf	612.88	K	Joback Method
vc	0.811	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.14	J/molxK	831.82	Joback Method
cpg	555.91	J/molxK	882.38	Joback Method
cpg	567.31	J/molxK	932.94	Joback Method
cpg	577.50	J/molxK	983.50	Joback Method
cpg	586.65	J/molxK	1034.06	Joback Method
cpg	594.93	J/molxK	1084.62	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2244771&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2244771&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>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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