

# «beta»-Endosulfan

<b>Other names:</b>	Endosulfan II 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (3«alpha»,5a«alpha»,6«beta»,9«beta»,9a«alpha»)- 2,3-dimethanol-, 6,7,8,9,10,10-hexachloro-, cyclic sulfite, exo- «beta»-Thiodan General Weed Killer 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, Endosulfan-«beta» (3«alpha»,5a«beta»,6«beta»,9«beta»,9a«beta»)- Endosulfan 2 Endosulfan B «alpha»-Thionex
<b>Inchi:</b>	InChI=1S/C9H6Cl6O3S/c10-5-6(11)8(13)4-2-18-19(16)17-1-3(4)7(5,12)9(8,14)15/h3-4H,
<b>InchiKey:</b>	RDYMFUSUJUZWHLH-MDBBVBRS-N
<b>Formula:</b>	C9H6Cl6O3S
<b>SMILES:</b>	O=S1OCC2C(CO1)C1(Cl)C(Cl)=C(Cl)C2(Cl)C1(Cl)Cl
<b>Mol. weight [g/mol]:</b>	406.93
<b>CAS:</b>	33213-65-9

## Physical Properties

Property code	Value	Unit	Source
gf	-305.13	kJ/mol	Joback Method
hf	-550.08	kJ/mol	Joback Method
hfus	39.28	kJ/mol	Joback Method
hvap	80.48	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	3.690		Crippen Method
mcvol	208.190	ml/mol	McGowan Method
pc	3384.14	kPa	Joback Method
rinpol	2183.00		NIST Webbook
rinpol	2236.00		NIST Webbook
rinpol	2183.00		NIST Webbook
rinpol	2236.00		NIST Webbook
rinpol	2250.00		NIST Webbook
rinpol	2188.00		NIST Webbook
rinpol	2203.00		NIST Webbook
tb	754.66	K	Joback Method
tc	1036.70	K	Joback Method
tf	641.66	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.43	J/mol×K	754.66	Joback Method
cpg	488.77	J/mol×K	801.67	Joback Method
cpg	502.31	J/mol×K	848.67	Joback Method
cpg	517.78	J/mol×K	895.68	Joback Method
cpg	535.85	J/mol×K	942.69	Joback Method
cpg	557.24	J/mol×K	989.70	Joback Method
cpg	582.64	J/mol×K	1036.70	Joback Method
hvapt	82.40	kJ/mol	398.00	NIST Webbook

## Sources

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C33213659&Units=SI>

## 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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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