

# Disulfiram

**Other names:** 1,1'-Dithiobis(N,N-diethylthioformamide)  
Abstensil  
Abstinil  
Abstinyll  
Accel TET  
Akrochem TETD  
Alcophobin  
Alk-Aubs  
Ancazide ET  
Antabus  
Antabuse  
Antadix  
Antaenyl  
Antaethan  
Antaethyl  
Antaetil  
Antalcol  
Antetan  
Antethyl  
Antetil  
Anteyl  
Anthethyl  
Antiaethan  
Aversan  
Averzan  
Bis((diethylamino)thioxomethyl) disulfide  
Bis((diethylamino)thioxomethyl)disulphide  
Bis(N,N-diethylthiocarbamoyl) disulfide  
Bis(N,N-diethylthiocarbamoyl)disulphide  
Bis(diethylthiocarbamoyl) disulfide  
Bis(diethylthiocarbamoyl)disulphide  
Bonibal  
Contralín  
Contrapot  
Cronetal  
Dicupral  
Disetil  
Disulfan  
Disulfide, bis(diethylthiocarbamoyl)  
Disulfuram

Disulphuram  
Dupon 4472  
Dupont fungicide 4472  
ENT 27,340  
Ekagom DTET  
Ekagom TEDS  
Ekagom TETDS  
Ekaland TETD  
Ephorran  
Espenal  
Esperal  
Etabus  
Ethyl Thiudad  
Ethyl Tuads  
Ethyl Tuads Rodform  
Ethyl Tuex  
Ethyl thiram  
Ethyl thiurad  
Ethyldithiourame  
Ethyldithiurame  
Exhoran  
Exhorran  
Formamide, 1,1'-dithiobis(N,N-diethylthio)-  
Hoca  
Hocakrotenalnci-C02959  
Krotenal  
N,N,N',N'-Tetraethylthiuram disulfide  
N,N,N',N'-Tetraethylthiuram disulphide  
NCI-C02959  
NSC 190940  
Nocbin  
Noxal  
Perkacit TETD  
Perkait TETD  
Refusal  
Ro-sulfiram  
Sanceler TET-G  
Soxinol TET  
Stopaethyl  
Stopetyl  
TATD  
TETD  
TTD

TTS  
Tenurid  
Tenutex  
Tetidis  
Tetradin  
Tetradine  
Tetraethyldithiuram disulfide  
Tetraethylthioperoxydicarbonic diamide  
Tetraethylthiram disulfide  
Tetraethylthiram disulphide  
Tetraethylthiuram  
Tetraethylthiuram disulfide  
Tetraethylthiuram disulphide  
Tetraethylthiuram sulfide  
Tetraethylthiuran disulfide  
Tetraetil  
Teturam  
Teturamin  
Thiocid  
Thioperoxydicarbonic diamide ([ (H<sub>2</sub>N)C(S)]<sub>2</sub>S<sub>2</sub>), N,N,N',N'-tetraethyl-  
Thioperoxydicarbonic diamide, tetraethyl-  
Thiosan  
Thioscabin  
Thireranide  
Thiuram E  
Thiuram disulfide, tetraethyl-  
Thiuranide  
Tillram  
Tiuram  
Tuads, ethyl  
USAF B-33  
anti-Ethyl  
antiCol  
antiEtanol  
antiEtil  
antiKol  
antiVitium

**Inchi:** InChI=1S/C10H20N2S4/c1-5-11(6-2)9(13)15-16-10(14)12(7-3)8-4/h5-8H2,1-4H3  
**InchiKey:** AUZONCFQVSMFAP-UHFFFAOYSA-N  
**Formula:** C10H20N2S4  
**SMILES:** CCN(CC)C(=S)SSC(=S)N(CC)CC  
**Mol. weight [g/mol]:** 296.54  
**CAS:** 97-77-8

# Physical Properties

Property code	Value	Unit	Source
gf	555.24	kJ/mol	Joback Method
hf	262.07	kJ/mol	Joback Method
hfus	45.16	kJ/mol	Joback Method
hvap	69.03	kJ/mol	Joback Method
log10ws	-4.72		Aqueous Solubility Prediction Method
log10ws	-3.00		Aqueous and cosolvent solubility data for drug-like organic compounds
log10ws	-4.86		Estimated Solubility Method
logp	3.621		Crippen Method
mcvol	228.520	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpola	2135.00		NIST Webbook
rinpola	2135.00		NIST Webbook
rinpola	2141.00		NIST Webbook
rinpola	2141.00		NIST Webbook
tb	730.72	K	Joback Method
tc	966.00	K	Joback Method
tf	343.77	K	Aqueous Solubility Prediction Method
vc	0.811	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.25	J/molxK	730.72	Joback Method
cpg	588.89	J/molxK	769.93	Joback Method
cpg	601.61	J/molxK	809.15	Joback Method
cpg	613.52	J/molxK	848.36	Joback Method
cpg	624.75	J/molxK	887.57	Joback Method
cpg	635.42	J/molxK	926.79	Joback Method
cpg	645.66	J/molxK	966.00	Joback Method

# Sources

<b>Aqueous and cosolvent solubility data for drug-like organic compounds: McGowan Method:</b>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/</a> <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=C97778&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C97778&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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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