

# Triallate

<b>Other names:</b>	2,3,3-Trichlorallyl-N,N-(diisopropyl)-thiocarbamat 2,3,3-Trichloroallyl N,N-diisopropylthiocarbamate 2,3,3-Trichloroallyl diisopropylthiocarbamate 2-Propene-1-thiol, 2,3,3-trichloro-, diisopropylcarbamate Avadex BE Avadex BW CP 23426 Carbamic acid, diisopropylthio-, S-(2,3,3-trichloroallyl) ester Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester Carbamothioic acid, bis(isopropyl), S-(2,3,3-trichloroallyl) ester Diisopropyltrichloroallylthiocarbamate Dipthal Far-Go Far-Go/Avadex BW N,N-Diisopropyl-2,3,3-trichlorallyl-thiolcarbamate N-Diisopropylthiocarbamic acid S-2,3,3-trichloro-2-propenyl ester NSC 379698 S-(2,3,3-Trichloro-2-propenyl) bis(1-methylethyl)carbamothioate S-(2,3,3-trichloroprop-2-enyl) (di(propan-2-yl)amino)methanethioate S-2,3,3-Trichloroallyl N,N-diisopropylthiocarbamate S-2,3,3-Trichloroallyl diisopropylthiocarbamate Showdown Thiocarbamic acid, N-diisopropyl-, S-2,3,3-trichloroallyl ester Triallat Triamyl
<b>Inchi:</b>	InChI=1S/C10H16Cl3NOS/c1-6(2)14(7(3)4)10(15)16-5-8(11)9(12)13/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	MWBPRDONLNQCFV-UHFFFAOYSA-N
<b>Formula:</b>	C10H16Cl3NOS
<b>SMILES:</b>	CC(C)N(C(=O)SCC(Cl)=C(Cl)Cl)C(C)C
<b>Mol. weight [g/mol]:</b>	304.66
<b>CAS:</b>	2303-17-5

## Physical Properties

Property code	Value	Unit	Source
gf	70.75	kJ/mol	Joback Method
hf	-213.05	kJ/mol	Joback Method

hfus	33.53		kJ/mol	Joback Method
hvap	65.96		kJ/mol	Joback Method
log10ws	-4.88			Aqueous Solubility Prediction Method
log10ws	-4.88			Estimated Solubility Method
logp	4.844			Crippen Method
mcvol	212.080		ml/mol	McGowan Method
pc	2197.95		kPa	Joback Method
rinpol	1827.00			NIST Webbook
rinpol	1827.00			NIST Webbook
rinpol	1823.00			NIST Webbook
rinpol	1809.00			NIST Webbook
tb	678.62		K	Joback Method
tc	901.28		K	Joback Method
tf	307.19 ± 0.20		K	NIST Webbook
vc	0.790		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.55	J/mol×K	678.62	Joback Method
cpg	510.50	J/mol×K	715.73	Joback Method
cpg	522.54	J/mol×K	752.84	Joback Method
cpg	533.73	J/mol×K	789.95	Joback Method
cpg	544.11	J/mol×K	827.06	Joback Method
cpg	553.76	J/mol×K	864.17	Joback Method
cpg	562.72	J/mol×K	901.28	Joback Method
hfust	27.11	kJ/mol	306.40	NIST Webbook
hsubt	84.00	kJ/mol	305.50	NIST Webbook
hvapt	84.30	kJ/mol	305.50	NIST Webbook

## Sources

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

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

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**Estimated Solubility Method:** [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)

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

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>rinpola:</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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