

# Sethoxydim

<b>Other names:</b>	2-[1-(ethoxyimino)butyl]-5-(2-ethylthiopropyl)-3-hydroxycyclohex-2-en-1-one
<b>Inchi:</b>	InChI=1S/C17H29NO3S/c1-5-8-14(18-21-6-2)17-15(19)10-13(11-16(17)20)9-12(4)22-7-3
<b>InchiKey:</b>	NMHGOXYVOKDNHF-UHFFFAOYSA-N
<b>Formula:</b>	C17H29NO3S
<b>SMILES:</b>	CCCC(=NOCC)C1C(=O)CC(CC(C)SCC)CC1=O
<b>Mol. weight [g/mol]:</b>	327.48
<b>CAS:</b>	74051-80-2

## Physical Properties

Property code	Value	Unit	Source
hf	-658.83	kJ/mol	Joback Method
hvap	74.28	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	3.875		Crippen Method
mcvol	270.570	ml/mol	McGowan Method
pc	1371.74	kPa	Joback Method
rinpol	2388.00		NIST Webbook
rinpol	2388.00		NIST Webbook
tb	906.20	K	Joback Method
tc	1140.06	K	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C74051802&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74051802&amp;Units=SI</a>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hvac:</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>rinsol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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