

# Acifluorfen, undecyl ester

<b>Inchi:</b>	InChI=1S/C25H29ClF3NO5/c1-2-3-4-5-6-7-8-9-10-15-34-24(31)20-17-19(12-13-22(20)30
<b>InchiKey:</b>	QCBMFQQJCBVDDDB-UHFFFAOYSA-N
<b>Formula:</b>	C25H29ClF3NO5
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1cc(Oc2ccc(C(F)(F)F)cc2Cl)ccc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	515.95

## Physical Properties

Property code	Value	Unit	Source
gf	-550.97	kJ/mol	Joback Method
hf	-1132.75	kJ/mol	Joback Method
hfus	68.39	kJ/mol	Joback Method
hvap	107.24	kJ/mol	Joback Method
log10ws	-9.97		Crippen Method
logp	8.747		Crippen Method
mvol	363.870	ml/mol	McGowan Method
pc	1022.04	kPa	Joback Method
rmpol	3517.00		NIST Webbook
tb	1127.24	K	Joback Method
tc	1380.83	K	Joback Method
tf	746.54	K	Joback Method
vc	1.435	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1204.67	J/mol×K	1127.24	Joback Method
cpg	1215.41	J/mol×K	1169.51	Joback Method
cpg	1224.79	J/mol×K	1211.77	Joback Method
cpg	1232.92	J/mol×K	1254.04	Joback Method
cpg	1239.90	J/mol×K	1296.30	Joback Method
cpg	1245.86	J/mol×K	1338.57	Joback Method
cpg	1250.88	J/mol×K	1380.83	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415150&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415150&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>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>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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