

# Acifluorfen, isobutyl ester

<b>Inchi:</b>	InChI=1S/C18H15ClF3NO5/c1-10(2)9-27-17(24)13-8-12(4-5-15(13)23(25)26)28-16-6-3-1
<b>InchiKey:</b>	IHGLAZUWEBNZJM-UHFFFAOYSA-N
<b>Formula:</b>	C18H15ClF3NO5
<b>SMILES:</b>	CC(C)COC(=O)c1cc(Oc2ccc(C(F)(F)F)cc2Cl)ccc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	417.76

## Physical Properties

Property code	Value	Unit	Source
gf	-612.35	kJ/mol	Joback Method
hf	-993.55	kJ/mol	Joback Method
hfus	46.74	kJ/mol	Joback Method
hvap	91.27	kJ/mol	Joback Method
log10ws	-6.80		Crippen Method
logp	5.872		Crippen Method
mvol	265.240	ml/mol	McGowan Method
pc	1668.70	kPa	Joback Method
rinpol	2710.00		NIST Webbook
rinpol	2710.00		NIST Webbook
tb	966.64	K	Joback Method
tc	1204.03	K	Joback Method
tf	652.65	K	Joback Method
vc	1.038	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	794.35	J/mol×K	966.64	Joback Method
cpg	803.91	J/mol×K	1006.21	Joback Method
cpg	812.31	J/mol×K	1045.77	Joback Method
cpg	819.60	J/mol×K	1085.34	Joback Method
cpg	825.85	J/mol×K	1124.90	Joback Method
cpg	831.10	J/mol×K	1164.47	Joback Method
cpg	835.43	J/mol×K	1204.03	Joback Method

# Sources

<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=U415142&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415142&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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