

# Isoxadifen-ethyl

<b>Other names:</b>	3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester
<b>Inchi:</b>	InChI=1S/C18H17NO3/c1-2-21-17(20)16-13-18(22-19-16,14-9-5-3-6-10-14)15-11-7-4-8-
<b>InchiKey:</b>	MWKVXOJATACCCH-UHFFFAOYSA-N
<b>Formula:</b>	C18H17NO3
<b>SMILES:</b>	CCOC(=O)C1=NOC(c2ccccc2)(c2ccccc2)C1
<b>Mol. weight [g/mol]:</b>	295.33
<b>CAS:</b>	163520-33-0

## Physical Properties

Property code	Value	Unit	Source
gf	173.63	kJ/mol	Joback Method
hf	-125.59	kJ/mol	Joback Method
hfus	34.83	kJ/mol	Joback Method
hvap	80.15	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.270		Crippen Method
mcvol	225.090	ml/mol	McGowan Method
pc	2500.00	kPa	Joback Method
rinpol	2328.00		NIST Webbook
rinpol	2328.00		NIST Webbook
tb	841.20	K	Joback Method
tc	1106.12	K	Joback Method
tf	563.81	K	Joback Method
vc	0.847	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.77	J/molxK	841.20	Joback Method
cpg	706.43	J/molxK	885.35	Joback Method
cpg	723.24	J/molxK	929.51	Joback Method
cpg	739.43	J/molxK	973.66	Joback Method
cpg	755.22	J/molxK	1017.81	Joback Method
cpg	770.84	J/molxK	1061.97	Joback Method

## Sources

<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>
<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=C163520330&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C163520330&amp;Units=SI</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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