

# DIETHOFENCARB

<b>Other names:</b>	Isopropyl N-(3,4-diethoxyphenyl)carbamate Carbamic acid, N-(3,4-diethoxyphenyl)-, 1-methylethyl ester *
<b>Inchi:</b>	InChI=1S/C14H21NO4/c1-5-17-12-8-7-11(9-13(12)18-6-2)15-14(16)19-10(3)4/h7-10H,5-
<b>InchiKey:</b>	LNJNFVJKDJYTEU-UHFFFAOYSA-N
<b>Formula:</b>	C14H21NO4
<b>SMILES:</b>	CCOc1ccc(NC(=O)OC(C)C)cc1OCC
<b>Mol. weight [g/mol]:</b>	267.32
<b>CAS:</b>	87130-20-9

## Physical Properties

Property code	Value	Unit	Source
gf	-196.82	kJ/mol	Joback Method
hf	-579.75	kJ/mol	Joback Method
hfus	32.02	kJ/mol	Joback Method
hvap	70.38	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.441		Crippen Method
mcvol	213.520	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
rinpol	1993.00		NIST Webbook
rinpol	1993.00		NIST Webbook
rinpol	1979.00		NIST Webbook
rinpol	1979.00		NIST Webbook
tb	727.22	K	Joback Method
tc	929.92	K	Joback Method
tf	453.28	K	Joback Method
vc	0.800	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.78	J/molxK	727.22	Joback Method
cpg	618.92	J/molxK	761.00	Joback Method

cpg	633.13	J/mol×K	794.79	Joback Method
cpg	646.39	J/mol×K	828.57	Joback Method
cpg	658.71	J/mol×K	862.35	Joback Method
cpg	670.07	J/mol×K	896.14	Joback Method
cpg	680.47	J/mol×K	929.92	Joback Method

## Sources

<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=C87130209&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C87130209&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>

## 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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