

# Pyracarbolid

**Other names:**

2-Methyl-5,6-dihydro-4,4-pyran-3-carbonsaeureanilid  
2-Methyl-5,6-dihydro-4-H-pyrane-3-carboxylic acid anilide  
2H-Pyran-5-carboxamide, 3,4-dihydro-6-methyl-N-phenyl-  
2H-Pyran-5-carboxanilide, 3,4-dihydro-6-methyl-  
3,4-Dihydro-6-methyl-2H-pyran-5-carboxanilide  
3,4-Dihydro-6-methyl-N-phenyl-2H-pyran-5-carboxamide  
4H-Pyran, 5,6-dihydro-2-methyl-3-(phenylcarbamoil)-  
5-6-Dihydro-2-methyl-3-(phenylcarbamoil)-4H-pyrane  
HOE 13764  
HOE 13764 OF  
HOE 2989  
HOE 6052  
HOE 6053  
Pyracarbolide  
Sicarol

**Inchi:**

InChI=1S/C13H15NO2/c1-10-12(8-5-9-16-10)13(15)14-11-6-3-2-4-7-11/h2-4,6-7H,5,8-9H

**InchiKey:**

YPCALTGLHFLNGA-UHFFFAOYSA-N

**Formula:**

C13H15NO2

**SMILES:**

CC1=C(C(=O)Nc2ccccc2)CCCO1

**Mol. weight [g/mol]:**

217.26

**CAS:**

24691-76-7

## Physical Properties

Property code	Value	Unit	Source
gf	88.20	kJ/mol	Joback Method
hf	-156.73	kJ/mol	Joback Method
hfus	29.35	kJ/mol	Joback Method
hvap	66.85	kJ/mol	Joback Method
log10ws	-2.56		Estimated Solubility Method
log10ws	-2.56		Aqueous Solubility Prediction Method
logp	2.710		Crippen Method
mcvol	172.530	ml/mol	McGowan Method
pc	3005.73	kPa	Joback Method
tb	687.85	K	Joback Method
tc	929.57	K	Joback Method

tf	381.40 ± 0.20	K	NIST Webbook
tf	383.65	K	Aqueous Solubility Prediction Method
vc	0.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.30	J/mol×K	849.00	Joback Method
cpg	532.41	J/mol×K	889.28	Joback Method
cpg	465.60	J/mol×K	687.85	Joback Method
cpg	481.34	J/mol×K	728.14	Joback Method
cpg	495.82	J/mol×K	768.42	Joback Method
cpg	509.12	J/mol×K	808.71	Joback Method
cpg	542.51	J/mol×K	929.57	Joback Method
hfust	19.21	kJ/mol	381.10	NIST Webbook
hfust	19.21	kJ/mol	381.10	NIST Webbook

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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=C24691767&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24691767&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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>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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