

# Benzoic acid, p-(alpha-ethoxy-p-phenylphenacylamino)-

Inchi:	InChI=1S/C23H21NO4/c1-2-28-22(24-20-14-12-19(13-15-20)23(26)27)21(25)18-10-8-17
InchiKey:	BPOMPTVRBWXZBY-UHFFFAOYSA-N
Formula:	C23H21NO4
SMILES:	CCOC(Nc1ccc(C(=O)O)cc1)C(=O)c1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]:	375.42
CAS:	1174-11-4

## Physical Properties

Property code	Value	Unit	Source
gf	48.04	kJ/mol	Joback Method
hf	-292.82	kJ/mol	Joback Method
hfus	46.72	kJ/mol	Joback Method
hvap	113.57	kJ/mol	Joback Method
log10ws	-6.57		Crippen Method
logp	4.709		Crippen Method
mcvol	288.510	ml/mol	McGowan Method
pc	1991.21	kPa	Joback Method
tb	1087.71	K	Joback Method
tc	1337.28	K	Joback Method
tf	673.84	K	Joback Method
vc	1.077	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	919.93	J/molxK	1087.71	Joback Method
cpg	928.91	J/molxK	1129.31	Joback Method
cpg	936.78	J/molxK	1170.90	Joback Method
cpg	943.65	J/molxK	1212.50	Joback Method
cpg	949.60	J/molxK	1254.09	Joback Method
cpg	954.75	J/molxK	1295.69	Joback Method
cpg	959.20	J/molxK	1337.28	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=C1174114&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1174114&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>hvac:</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>mccol:</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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