

# Phenylacetamide, N,N-bis(2-ethylhexyl)-

<b>Inchi:</b>	InChI=1S/C24H41NO/c1-5-9-14-21(7-3)19-25(20-22(8-4)15-10-6-2)24(26)18-23-16-12-1
<b>InchiKey:</b>	HXZGBCDTBWFOBH-UHFFFAOYSA-N
<b>Formula:</b>	C24H41NO
<b>SMILES:</b>	CCCCC(CC)CN(CC(CC)CCCC)C(=O)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	359.59

## Physical Properties

Property code	Value	Unit	Source
gf	240.59	kJ/mol	Joback Method
hf	-357.77	kJ/mol	Joback Method
hfus	49.53	kJ/mol	Joback Method
hvap	79.31	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	6.491		Crippen Method
mvol	336.810	ml/mol	McGowan Method
pc	1031.25	kPa	Joback Method
rinpol	2434.00		NIST Webbook
rinpol	2434.00		NIST Webbook
tb	840.63	K	Joback Method
tc	1036.34	K	Joback Method
tf	439.06	K	Joback Method
vc	1.284	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1080.26	J/mol×K	840.63	Joback Method
cpg	1100.21	J/mol×K	873.25	Joback Method
cpg	1118.97	J/mol×K	905.87	Joback Method
cpg	1136.62	J/mol×K	938.49	Joback Method
cpg	1153.22	J/mol×K	971.10	Joback Method
cpg	1168.85	J/mol×K	1003.72	Joback Method
cpg	1183.56	J/mol×K	1036.34	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=U308410&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308410&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/37-451-0/Phenylacetamide-N-N-bis-2-ethylhexyl.pdf>

Generated by Cheméo on 2025-03-15 04:27:29.615809731 +0000 UTC m=+5221065.462735363.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.