

# Urea, N,N-diphenyl-N'-(2-ethylhexyl)-

<b>Inchi:</b>	InChI=1S/C21H28N2O/c1-3-5-12-18(4-2)17-22-21(24)23(19-13-8-6-9-14-19)20-15-10-7-
<b>InchiKey:</b>	GAOSECHRLOARAN-UHFFFAOYSA-N
<b>Formula:</b>	C21H28N2O
<b>SMILES:</b>	CCCCC(CC)CN=C(O)N(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	324.46

## Physical Properties

Property code	Value	Unit	Source
hf	-21.26	kJ/mol	Joback Method
hvap	88.62	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	5.955		Crippen Method
mcvol	280.760	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinpol	2576.00		NIST Webbook
rinpol	2576.00		NIST Webbook
tb	913.98	K	Joback Method
tc	1134.16	K	Joback Method

## Sources

<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>
<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=U407554&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407554&amp;Units=SI</a>

## Legend

<b>hf:</b>	Enthalpy of formation 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

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