

Urea, n,n-dibutyl-n'-phenyl-

Other names:	Urea, 1,1-dibutyl-3-phenyl- 1,1-Dibutyl-3-phenylurea
Inchi:	InChI=1S/C15H24N2O/c1-3-5-12-17(13-6-4-2)15(18)16-14-10-8-7-9-11-14/h7-11H,3-6,1
InchiKey:	VLAGNIMOLLTGGE-UHFFFAOYSA-N
Formula:	C15H24N2O
SMILES:	CCCCN(CCCC)C(=O)Nc1ccccc1
Mol. weight [g/mol]:	248.37

Physical Properties

Property code	Value	Unit	Source
hfus	38.37	kJ/mol	Joback Method
ie	7.79	eV	Cheméo Relay (1.0)
log10ws	-3.97		Cheméo Relay (1.0)
logp	4.121		Crippen Method
mcvol	219.980	ml/mol	McGowan Method
pc	1970.05	kPa	Joback Method
tb	600.14	K	Cheméo Relay (1.0)
tc	845.11	K	Cheméo Relay (1.0)
tf	337.15	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.04	J/mol×K	685.76	Joback Method
cpg	631.77	J/mol×K	718.69	Joback Method
cpg	647.50	J/mol×K	751.62	Joback Method
cpg	662.26	J/mol×K	784.55	Joback Method
cpg	676.11	J/mol×K	817.48	Joback Method
cpg	689.10	J/mol×K	850.41	Joback Method
cpg	701.28	J/mol×K	883.34	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2589211&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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