

Benzamide, n,n-dibutyl-

Other names:	Di-N-n-butylbenzoic acid amide N,N-Dibutylbenzamide
Inchi:	InChI=1S/C15H23NO/c1-3-5-12-16(13-6-4-2)15(17)14-10-8-7-9-11-14/h7-11H,3-6,12-13
InchiKey:	RYGJQVQEGCQNHM-UHFFFAOYSA-N
Formula:	C15H23NO
SMILES:	CCCCN(CCCC)C(=O)c1ccccc1
Mol. weight [g/mol]:	233.36

Physical Properties

Property code	Value	Unit	Source
af	0.6875		Cheméo Relay (1.0)
gf	169.69	kJ/mol	Joback Method
hf	-217.88	kJ/mol	Cheméo Relay (1.0)
hfus	33.27	kJ/mol	Joback Method
hvap	74.72	kJ/mol	Cheméo Relay (1.0)
ie	8.29	eV	Cheméo Relay (1.0)
log10ws	-3.93		Cheméo Relay (1.0)
logp	3.729		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
rinpol	1798.00		NIST Webbook
rinpol	1798.00		NIST Webbook
tb	593.02	K	Cheméo Relay (1.0)
tc	786.05	K	Cheméo Relay (1.0)
tf	270.02	K	Cheméo Relay (1.0)
vc	0.775	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	557.20	J/mol×K	635.59	Joback Method
cpg	574.64	J/mol×K	668.39	Joback Method
cpg	591.06	J/mol×K	701.19	Joback Method
cpg	606.51	J/mol×K	733.98	Joback Method

cpg	621.04	J/mol×K	766.78	Joback Method
cpg	634.68	J/mol×K	799.58	Joback Method
cpg	647.49	J/mol×K	832.38	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C25033652&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

af:	Acentric Factor
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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