

Benzamide, n,n-didecyl-3-bromo-

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C27H46BrNO/c1-3-5-7-9-11-13-15-17-22-29(23-18-16-14-12-10-8-6-4-2)27(30)

WXMVNEJSALHXED-UHFFFAOYSA-N

C27H46BrNO

CCCCCCCCCN(CCCCCCCCCC)C(=O)c1cccc(Br)c1

480.57

Physical Properties

Property code	Value	Unit	Source
hf	-473.80	kJ/mol	Cheméo Relay (1.0)
hfus	69.24	kJ/mol	Joback Method
hvap	125.02	kJ/mol	Cheméo Relay (1.0)
ie	8.66	eV	Cheméo Relay (1.0)
log10ws	-8.79		Cheméo Relay (1.0)
logp	9.173		Crippen Method
mcvol	396.580	ml/mol	McGowan Method
rinpol	3246.00		NIST Webbook
rinpol	3246.00		NIST Webbook
tb	703.24	K	Cheméo Relay (1.0)
tf	314.46	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1316.66	J/mol×K	981.29	Joback Method
cpg	1336.34	J/mol×K	1018.03	Joback Method
cpg	1354.84	J/mol×K	1054.77	Joback Method
cpg	1372.28	J/mol×K	1091.51	Joback Method
cpg	1388.77	J/mol×K	1128.25	Joback Method
cpg	1404.41	J/mol×K	1164.99	Joback Method
cpg	1419.33	J/mol×K	1201.73	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=U308629&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

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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