

N-Benzylpalmitamide

Inchi:	InChI=1S/C23H39NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-17-20-23(25)24-21-22-18-15-14-1
InchiKey:	MLGPKWUKOQAAGI-UHFFFAOYSA-N
Formula:	C23H39NO
SMILES:	CCCCCCCCCCCCCCCC(=O)NCc1ccccc1
Mol. weight [g/mol]:	345.57

Physical Properties

Property code	Value	Unit	Source
af	1.0145		Cheméo Relay (1.0)
gf	215.66	kJ/mol	Joback Method
hf	-432.42	kJ/mol	Cheméo Relay (1.0)
hfus	56.06	kJ/mol	Joback Method
hvap	122.09	kJ/mol	Cheméo Relay (1.0)
ie	9.17	eV	Cheméo Relay (1.0)
log10ws	-6.54		Cheméo Relay (1.0)
logp	6.784		Crippen Method
mcvol	322.720	ml/mol	McGowan Method
pc	1097.17	kPa	Joback Method
rinpol	2880.20		NIST Webbook
rinpol	2880.20		NIST Webbook
tb	652.13	K	Cheméo Relay (1.0)
tc	878.65	K	Cheméo Relay (1.0)
tf	368.25 ± 0.50	K	NIST Webbook
vc	1.219	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1039.21	J/mol×K	856.36	Joback Method
cpg	1057.95	J/mol×K	889.20	Joback Method
cpg	1075.57	J/mol×K	922.04	Joback Method
cpg	1092.14	J/mol×K	954.88	Joback Method
cpg	1107.72	J/mol×K	987.72	Joback Method
cpg	1122.37	J/mol×K	1020.56	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C74058712&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

Latest version available from:

<https://www.chemeo.com/cid/88-681-9/N-Benzylpalmitamide.pdf>

Generated by Cheméo on 2026-07-21 20:52:36.726072167 +0000 UTC m=+178252.567957540.

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