

Benzo(c)phenanthren-2-amine

Other names:	2-Bnzo[c]phenanthrenamine Benzo[c]phenanthrene, 2-amino
Inchi:	InChI=1S/C18H13N/c19-15-10-9-13-6-8-14-7-5-12-3-1-2-4-16(12)18(14)17(13)11-15/h1-
InchiKey:	RUDUZSVUMOSISI-UHFFFAOYSA-N
Formula:	C18H13N
SMILES:	Nc1ccc2ccc3ccc4ccccc4c3c2c1
Mol. weight [g/mol]:	243.30
CAS:	4235-06-7

Physical Properties

Property code	Value	Unit	Source
gf	570.60	kJ/mol	Joback Method
hf	394.27	kJ/mol	Joback Method
hfus	31.50	kJ/mol	Joback Method
hvap	75.48	kJ/mol	Joback Method
log10ws	-6.52		Crippen Method
logp	4.728		Crippen Method
mcvol	192.320	ml/mol	McGowan Method
pc	2865.80	kPa	Joback Method
rinpol	450.10		NIST Webbook
rinpol	450.10		NIST Webbook
tb	782.33	K	Joback Method
tc	1050.06	K	Joback Method
tf	537.96	K	Joback Method
vc	0.731	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.87	J/mol×K	782.33	Joback Method
cpg	537.53	J/mol×K	826.95	Joback Method
cpg	550.29	J/mol×K	871.57	Joback Method
cpg	562.36	J/mol×K	916.19	Joback Method
cpg	573.96	J/mol×K	960.81	Joback Method

cpg	585.32	J/mol×K	1005.44	Joback Method
cpg	596.64	J/mol×K	1050.06	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4235067&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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
hvac:	Enthalpy of vaporization at standard conditions
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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