

(BUTYLAMINO)ACETONITRILE

Other names:	N-n-Butylaminoacetonitrile (n-Butylamino)acetonitrile Acetonitrile, (butylamino)-
Inchi:	InChI=1S/C6H12N2/c1-2-3-5-8-6-4-7/h8H,2-3,5-6H2,1H3
InchiKey:	SPMMZKAWNAKPJM-UHFFFAOYSA-N
Formula:	C6H12N2
SMILES:	CCCCNCC#N
Mol. weight [g/mol]:	112.18

Physical Properties

Property code	Value	Unit	Source
af	0.5064		Cheméo Relay (1.0)
hf	46.51	kJ/mol	Cheméo Relay (1.0)
hfus	17.90	kJ/mol	Joback Method
hvap	53.06	kJ/mol	Cheméo Relay (1.0)
ie	9.12	eV	Cheméo Relay (1.0)
log10ws	-0.51		Cheméo Relay (1.0)
logp	0.900		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
tb	469.10	K	Cheméo Relay (1.0)
tc	638.15	K	Cheméo Relay (1.0)
tf	218.11	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.14	J/mol×K	488.93	Joback Method
cpg	240.07	J/mol×K	520.87	Joback Method
cpg	249.55	J/mol×K	552.81	Joback Method
cpg	258.59	J/mol×K	584.76	Joback Method
cpg	267.21	J/mol×K	616.70	Joback Method
cpg	275.42	J/mol×K	648.64	Joback Method
cpg	283.23	J/mol×K	680.58	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	358.20	K	1.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C3010046&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
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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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