

Benzenemethanol, 2-nitro-

Other names:	Benzyl alcohol, o-nitro- o-Nitrobenzyl alcohol 2-Nitrobenzyl alcohol
Inchi:	InChI=1S/C7H7NO3/c9-5-6-3-1-2-4-7(6)8(10)11/h1-4,9H,5H2
InchiKey:	BWRBVBFLFQKBPT-UHFFFAOYSA-N
Formula:	C7H7NO3
SMILES:	O=[N+](O-)c1ccccc1CO
Mol. weight [g/mol]:	153.14
CAS:	612-25-9

Physical Properties

Property code	Value	Unit	Source
gf	9.57	kJ/mol	Joback Method
hf	-125.74	kJ/mol	Joback Method
hfus	22.99	kJ/mol	Joback Method
hvap	67.38	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.087		Crippen Method
mcvol	109.020	ml/mol	McGowan Method
pc	4627.70	kPa	Joback Method
tb	543.20	K	NIST Webbook
tc	863.19	K	Joback Method
tf	412.02	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.07	J/mol×K	635.24	Joback Method
cpg	270.91	J/mol×K	673.23	Joback Method
cpg	279.10	J/mol×K	711.22	Joback Method
cpg	286.68	J/mol×K	749.21	Joback Method
cpg	293.68	J/mol×K	787.21	Joback Method
cpg	300.14	J/mol×K	825.20	Joback Method

cpg

306.09

J/mol×K

863.19

Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	441.20	K	2.70	NIST Webbook

Sources

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=C612259&Units=SI
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
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
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
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/33-460-4/Benzenemethanol-2-nitro.pdf>

Generated by Cheméo on 2025-12-22 16:02:32.735836739 +0000 UTC m=+6167550.265877406.

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