

3-BROMO-1,1,1-TRIFLUOROACETONE

Other names:	3-Bromo-1,1,1-trifluoropropanone 3-Bromo-1,1,1-trifluoro-2-propanone 2-Propanone, 3-bromo-1,1,1-trifluoro- 3-Bromo-1,1,1-trifluoroacetone
Inchi:	InChI=1S/C3H2BrF3O/c4-1-2(8)3(5,6)7/h1H2
InchiKey:	ONZQYZKCUHFORE-UHFFFAOYSA-N
Formula:	C3H2BrF3O
SMILES:	O=C(CBr)C(F)(F)F
Mol. weight [g/mol]:	190.95

Physical Properties

Property code	Value	Unit	Source
af	0.3310		Cheméo Relay (1.0)
hf	-810.77	kJ/mol	Cheméo Relay (1.0)
hfus	12.24	kJ/mol	Joback Method
hvap	31.90	kJ/mol	Cheméo Relay (1.0)
ie	10.92 ± 0.02	eV	NIST Webbook
logp	1.513		Crippen Method
mcvol	77.510	ml/mol	McGowan Method
pc	4504.30	kPa	Joback Method
tb	359.00 ± 1.00	K	NIST Webbook
tc	492.68	K	Cheméo Relay (1.0)
vc	0.265	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	132.87	J/mol×K	382.65	Joback Method
cpg	138.83	J/mol×K	412.91	Joback Method
cpg	144.36	J/mol×K	443.17	Joback Method
cpg	149.46	J/mol×K	473.43	Joback Method
cpg	154.17	J/mol×K	503.69	Joback Method
cpg	158.51	J/mol×K	533.95	Joback Method
cpg	162.49	J/mol×K	564.21	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C431356&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

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
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/53-857-2/3-BROMO-1-1-1-TRIFLUOROACETONE.pdf>

Generated by Cheméo on 2026-07-21 17:42:14.410011785 +0000 UTC m=+166830.251897154.

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