2-(Trifluoromethyl)phenylhydrazine

Other names: 2-Trifluoromethylphenylhydrazine
Hydrazine, [2-(trifluoromethyl)phenyl]-
2-trifluormethylphenylhydrazine
Inchi: InChI=1S/C7H7F3N2/c8-7(9,10)5-3-1-2-4-6(5)12-11/h1-4,12H,11H2
InchiKey: JSWQDLBFVSTSIW-UHFFFAOYSA-N
Formula: C7H7F3N2
SMILES: NNc1ccccc1C(F)(F)F
Mol. weight [g/mol]: 176.14

Physical Properties

Property code	Value	Unit	Source
hfus	19.66	kJ/mol	Joback Method
hvap	62.42	kJ/mol	Cheméo Relay (1.0)
ie	8.45	eV	Cheméo Relay (1.0)
logp	1.991		Crippen Method
mcvol	111.000	ml/mol	McGowan Method
tb	494.57	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.97	J/mol×K	508.50	Joback Method
cpg	268.88	J/mol×K	543.17	Joback Method
cpg	278.98	J/mol×K	577.84	Joback Method
cpg	288.31	J/mol×K	612.51	Joback Method
cpg	296.93	J/mol×K	647.18	Joback Method
cpg	304.88	J/mol×K	681.85	Joback Method
cpg	312.20	J/mol×K	716.52	Joback Method

Sources

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):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C365344&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature