

2-methylphenethylamine

Inchi:	InChI=1S/C9H13N/c1-8-4-2-3-5-9(8)6-7-10/h2-5H,6-7,10H2,1H3
InchiKey:	OWOUKRYOZIZVFK-UHFFFAOYSA-N
Formula:	C9H13N
SMILES:	Cc1ccccc1CCN
Mol. weight [g/mol]:	135.21
CAS:	55755-16-3

Physical Properties

Property code	Value	Unit	Source
af	0.4751		Cheméo Relay (1.0)
gf	194.13	kJ/mol	Joback Method
hf	26.73	kJ/mol	Cheméo Relay (1.0)
hfus	17.92	kJ/mol	Joback Method
hvap	60.44	kJ/mol	Cheméo Relay (1.0)
ie	8.38	eV	Cheméo Relay (1.0)
log10ws	-1.57		Cheméo Relay (1.0)
logp	1.496		Crippen Method
mcvol	123.890	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	495.52	K	Cheméo Relay (1.0)
tc	714.10	K	Cheméo Relay (1.0)
tf	296.89	K	Cheméo Relay (1.0)
vc	0.431	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.53	J/mol×K	509.51	Joback Method
cpg	285.22	J/mol×K	546.28	Joback Method
cpg	298.11	J/mol×K	583.04	Joback Method
cpg	310.23	J/mol×K	619.81	Joback Method
cpg	321.61	J/mol×K	656.58	Joback Method
cpg	332.28	J/mol×K	693.35	Joback Method
cpg	342.28	J/mol×K	730.11	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43892e+01
Coeff. B	-3.98170e+03
Coeff. C	-7.45730e+01
Temperature range (K), min.	356.93
Temperature range (K), max.	513.20

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

The Yaws Handbook of Vapor
Pressure:
Joback Method:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

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
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure

pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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