

Methyl anthranilate

Other names: 2-(Methoxycarbonyl)aniline
2-Aminobenzoic acid methyl ester
2-Carbomethoxyaniline
2-aminobenzoic acid, methyl ester
Benzoic acid, 2-amino-, methyl ester
Methyl anthranilate
Methyl ester of o-Aminobenzoic acid
Methyl o-aminobenzoate
Methylester kyseliny anthranilove
NSC 3109
Neroli oil, artifical
Neroli oil, artificial
Nevoli oil
anthranilic acid, methyl ester
methyl 2-aminobenzoate
o-Amino methyl benzoate
o-Aminobenzoic acid, methyl ester
o-Carbomethoxyaniline

Inchi: InChI=1S/C8H9NO2/c1-11-8(10)6-4-2-3-5-7(6)9/h2-5H,9H2,1H3

InchiKey: VAMXMNNIEUEQDV-UHFFFAOYSA-N

Formula: C8H9NO2

SMILES: COC(=O)c1ccccc1N

Mol. weight [g/mol]: 151.16

CAS: 134-20-3

Physical Properties

Property code	Value	Unit	Source
gf	-48.21	kJ/mol	Joback Method
hf	-194.40	kJ/mol	Joback Method
hfus	17.90	kJ/mol	Thermodynamic study of phase transitions in methyl esters of ortho-, meta-, and para-aminobenzoic acids
hvap	56.14	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.055		Crippen Method
mcvol	117.240	ml/mol	McGowan Method

pc	4072.51	kPa	Joback Method
rinpol	1329.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1309.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1328.00		NIST Webbook
rinpol	1372.00		NIST Webbook
rinpol	1314.00		NIST Webbook
rinpol	1301.00		NIST Webbook
rinpol	1327.00		NIST Webbook
rinpol	1318.00		NIST Webbook
rinpol	1312.00		NIST Webbook
rinpol	1311.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1296.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1317.00		NIST Webbook
rinpol	1346.00		NIST Webbook
rinpol	1363.00		NIST Webbook
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rinpol	1347.00		NIST Webbook
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rinpol	1346.00		NIST Webbook
rinpol	1345.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1341.00		NIST Webbook
rinpol	1360.70		NIST Webbook
rinpol	1345.20		NIST Webbook
rinpol	1325.00		NIST Webbook
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rinpol	1329.00		NIST Webbook
rinpol	1336.00		NIST Webbook

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rinpol	1298.00	NIST Webbook
rinpol	1306.30	NIST Webbook
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rinpol	1346.90	NIST Webbook
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ripol	2188.00	NIST Webbook
ripol	2254.00	NIST Webbook
ripol	2255.00	NIST Webbook
ripol	2257.00	NIST Webbook
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ripol	2226.00		NIST Webbook
ripol	2247.00		NIST Webbook
ripol	2232.00		NIST Webbook
ripol	2259.00		NIST Webbook
ripol	2198.00		NIST Webbook
ripol	2197.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2206.00		NIST Webbook
ripol	2236.00		NIST Webbook
tb	529.20	K	NIST Webbook
tc	793.64	K	Joback Method
tf	297.50 ± 0.50	K	NIST Webbook
tf	298.65 ± 1.00	K	NIST Webbook
tf	297.60 ± 0.02	K	NIST Webbook
vc	0.428	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.72	J/mol×K	716.73	Joback Method
cpg	314.25	J/mol×K	755.19	Joback Method
cpg	264.93	J/mol×K	562.92	Joback Method
cpg	276.15	J/mol×K	601.37	Joback Method
cpg	286.68	J/mol×K	639.83	Joback Method
cpg	296.53	J/mol×K	678.28	Joback Method
cpg	322.15	J/mol×K	793.64	Joback Method
hsubt	78.40	kJ/mol	292.50	NIST Webbook
hvapt	62.30	kJ/mol	316.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	406.60	K	2.00	NIST Webbook

Sources

Thermodynamic study of phase transitions in methyl esters of ortho-, meta- and para-aminobenzoic acids: Equilibria for Systems of Water + Methanol + Methylanthranilate + Toluene at Different Temperatures: McGowan Method:

<https://www.doi.org/10.1016/j.jct.2012.04.006>

<https://www.doi.org/10.1021/je300585v>

https://en.wikipedia.org/wiki/Joback_method

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C134203&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Liquid-liquid equilibria for systems of water + methanol + methyl anthranilate at several temperatures:

<https://www.doi.org/10.1016/j.fluid.2011.07.008>

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
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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