

4'-METHOXYBENZANILIDE

Other names:	N-Benzoyl-p-anisidine Benzamide, N-(p-methoxyphenyl)- Benzamide, N-(4-methoxyphenyl)- 4'-Methoxybenzanilide 4Methoxybenzanilide N-(4-Methoxyphenyl)benzamide N-(4-Methoxyphenyl)benzoic acid amide
Inchi:	InChI=1S/C14H13NO2/c1-17-13-9-7-12(8-10-13)15-14(16)11-5-3-2-4-6-11/h2-10H,1H3,(
InchiKey:	KEEBHMMBUBEEOV-UHFFFAOYSA-N
Formula:	C14H13NO2
SMILES:	COc1ccc(NC(=O)c2ccccc2)cc1
Mol. weight [g/mol]:	227.26

Physical Properties

Property code	Value	Unit	Source
af	0.6600		Cheméo Relay (1.0)
hf	-114.12	kJ/mol	Cheméo Relay (1.0)
hfus	27.60	kJ/mol	Joback Method
hvap	91.30	kJ/mol	Cheméo Relay (1.0)
ie	7.60 ± 0.10	eV	NIST Webbook
log10ws	-3.88		Cheméo Relay (1.0)
logp	2.947		Crippen Method
mcvol	178.020	ml/mol	McGowan Method
pc	2902.98	kPa	Joback Method
tb	636.08	K	Cheméo Relay (1.0)
tc	918.40	K	Cheméo Relay (1.0)
tf	409.21	K	Cheméo Relay (1.0)
vc	0.641	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.51	J/mol×K	704.52	Joback Method
cpg	479.89	J/mol×K	744.65	Joback Method

cpg	493.10	J/mol×K	784.77	Joback Method
cpg	505.18	J/mol×K	824.90	Joback Method
cpg	516.18	J/mol×K	865.03	Joback Method
cpg	526.15	J/mol×K	905.15	Joback Method
cpg	535.15	J/mol×K	945.28	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7472540&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

Cheméo Relay (1.0):

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
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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