

Anthranilic acid, 2-methybutyl ester

Inchi:	InChI=1S/C12H17NO2/c1-3-9(2)8-15-12(14)10-6-4-5-7-11(10)13/h4-7,9H,3,8,13H2,1-2H
InchiKey:	KBAORSVTUDRDSG-UHFFFAOYSA-N
Formula:	C12H17NO2
SMILES:	CCC(C)COC(=O)c1ccccc1N
Mol. weight [g/mol]:	207.27

Physical Properties

Property code	Value	Unit	Source
gf	-16.97	kJ/mol	Joback Method
hf	-282.24	kJ/mol	Joback Method
hfus	24.95	kJ/mol	Joback Method
hvap	64.65	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.472		Crippen Method
mvol	173.600	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
rinpol	1710.00		NIST Webbook
tb	654.00	K	Joback Method
tc	872.68	K	Joback Method
tf	404.36	K	Joback Method
vc	0.646	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.19	J/mol×K	654.00	Joback Method
cpg	470.89	J/mol×K	690.45	Joback Method
cpg	484.67	J/mol×K	726.89	Joback Method
cpg	497.54	J/mol×K	763.34	Joback Method
cpg	509.54	J/mol×K	799.79	Joback Method
cpg	520.69	J/mol×K	836.23	Joback Method
cpg	531.01	J/mol×K	872.68	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U375474&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
r inpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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