

GAMMA-(4-FLUOROPHENYL)-GAMMA-BUTYRO-L

Other names:	«gamma»-(4-Fluorophenyl)-butyrolactone 2(3H)-Furanone, 5-(4-fluorophenyl)dihydro-
Inchi:	InChI=1S/C10H9FO2/c11-8-3-1-7(2-4-8)9-5-6-10(12)13-9/h1-4,9H,5-6H2
InchiKey:	RMFNZGXVLAUJHF-UHFFFAOYSA-N
Formula:	C10H9FO2
SMILES:	O=C1CCC(c2ccc(F)cc2)O1
Mol. weight [g/mol]:	180.18

Physical Properties

Property code	Value	Unit	Source
hfus	19.81	kJ/mol	Joback Method
logp	2.204		Crippen Method
mcvol	126.350	ml/mol	McGowan Method
tb	566.67	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.75	J/mol×K	569.18	Joback Method
cpg	323.26	J/mol×K	609.55	Joback Method
cpg	337.76	J/mol×K	649.92	Joback Method
cpg	351.25	J/mol×K	690.29	Joback Method
cpg	363.75	J/mol×K	730.66	Joback Method
cpg	375.27	J/mol×K	771.03	Joback Method
cpg	385.83	J/mol×K	811.40	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=C51787963&Units=SI>

Legend

cpg: Ideal gas heat capacity
hfus: Enthalpy of fusion at standard conditions
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature

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