

risperidone

Other names:	3-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-4H-
Inchi:	InChI=1S/C23H27FN4O2/c1-15-18(23(29)28-10-3-2-4-21(28)25-15)9-13-27-11-7-16(8-12)-2
InchiKey:	RAPZEAPATHNIPO-UHFFFAOYSA-N
Formula:	C23H27FN4O2
SMILES:	Cc1nc2n(c(=O)c1CCN1CCC(c3noc4cc(F)ccc34)CC1)CCCC2
Mol. weight [g/mol]:	410.49

Physical Properties

Property code	Value	Unit	Source
hfus	43.94	kJ/mol	Thermodynamics of risperidone and solubility in pure organic solvents
hfus	41.87	kJ/mol	Risperidone Solid-state characterization and pharmaceutical compatibility using thermal and non-thermal techniques
log10ws	-10.67		Crippen Method
logp	3.590		Crippen Method
mcvol	303.960	ml/mol	McGowan Method
tf	442.38	K	Thermodynamics of risperidone and solubility in pure organic solvents
tf	443.67	K	Risperidone Solid-state characterization and pharmaceutical compatibility using thermal and non-thermal techniques

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	839.00	J/molxK	430.10	Thermodynamics of risperidone and solubility in pure organic solvents

cpl	842.00	J/molxK	434.90	Thermodynamics of risperidone and solubility in pure organic solvents
cpl	845.00	J/molxK	440.00	Thermodynamics of risperidone and solubility in pure organic solvents
cpl	850.00	J/molxK	445.10	Thermodynamics of risperidone and solubility in pure organic solvents
cpl	854.00	J/molxK	449.90	Thermodynamics of risperidone and solubility in pure organic solvents
cpl	856.00	J/molxK	453.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	537.00	J/molxK	324.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	476.00	J/molxK	275.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	480.00	J/molxK	280.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	483.00	J/molxK	284.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	489.00	J/molxK	290.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	495.00	J/molxK	294.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	502.00	J/molxK	300.10	Thermodynamics of risperidone and solubility in pure organic solvents

cps	509.00	J/molxK	304.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	516.00	J/molxK	310.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	523.00	J/molxK	314.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	530.00	J/molxK	320.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	471.00	J/molxK	270.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	544.00	J/molxK	330.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	551.00	J/molxK	334.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	558.00	J/molxK	340.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	564.00	J/molxK	345.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	571.00	J/molxK	350.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	578.00	J/molxK	355.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	583.00	J/molxK	359.90	Thermodynamics of risperidone and solubility in pure organic solvents

cps	590.00	J/mol×K	365.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	597.00	J/mol×K	370.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	602.00	J/mol×K	375.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	609.00	J/mol×K	380.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	615.00	J/mol×K	384.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	621.00	J/mol×K	390.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	627.00	J/mol×K	394.90	Thermodynamics of risperidone and solubility in pure organic solvents
cps	634.00	J/mol×K	400.00	Thermodynamics of risperidone and solubility in pure organic solvents
cps	641.00	J/mol×K	405.10	Thermodynamics of risperidone and solubility in pure organic solvents
cps	647.00	J/mol×K	409.90	Thermodynamics of risperidone and solubility in pure organic solvents

Sources

Risperidone Solid-state characterization and compatibility using thermal and non-thermal techniques:

<https://www.doi.org/10.1016/j.tca.2013.06.032>

<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
Thermodynamics of risperidone and solubility in pure organic solvents: <https://www.doi.org/10.1016/j.fluid.2014.04.028>

Legend

cpl:	Liquid phase heat capacity
cps:	Solid phase heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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