n-ethyl perfluorooctane sulfonamide

Inchi: InChI=1S/C10H6F17NO2S/c1-2-28-31(29,30)10(26,27)8(21,22)6(17,18)4(13,14)3(11,12)
InchiKey: CCEKAJIANROZEO-UHFFFAOYSA-N
Formula: C10H6F17NO2S
SMILES: CCNS(=O)(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 527.20

Physical Properties

Property code	Value	Unit	Source
hfus	31.18	kJ/mol	Joback Method
logp	4.893		Crippen Method
mcvol	219.920	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.36	J/mol×K	487.90	Joback Method
cpg	625.99	J/mol×K	508.49	Joback Method
cpg	638.74	J/mol×K	529.07	Joback Method
cpg	650.63	J/mol×K	549.66	Joback Method
cpg	661.71	J/mol×K	570.24	Joback Method
cpg	672.01	J/mol×K	590.83	Joback Method
cpg	681.58	J/mol×K	611.42	Joback Method

Sources

Cheméo Relay (1.0, beta):

Determination of Octanol-Air Partition Coefficients (KOA) of Fluorotelomer Acrylates, Perfluoroalkyl Sulfonamids, and Perfluoroalkylsulfonamido Ethanols: https://www.doi.org/10.1021/je900082g

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

Legend

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