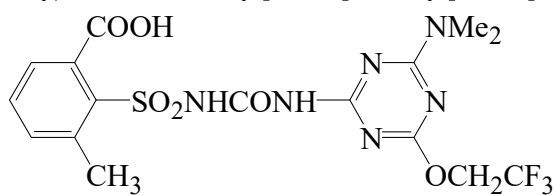




>>Entry Name: Triflusulfuron, ANSI, BSI

Synonym(s): 2-[[[4-(Dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]-3-methylbenzoic acid, 9CI



CAS Registry Number: 135990-29-3

Molecular Formula: C₁₆H₁₇F₃N₆O₆S

Molecular Weight: 478.408

Accurate Mass: 478.088238

Percentage Composition: C 40.17%; H 3.58%; F 11.91%; N 17.57%; O 20.07%; S 6.70%

Other: DuPont

>>Derivative: Me ester

Synonym(s): Triflusulfuron-methyl. Debut. Safari. Upbeet. DPX 66037. IN 66037. JT 478

CAS Registry Number: 126535-15-7

Molecular Formula: C₁₇H₁₉F₃N₆O₆S

Molecular Weight: 492.435

Accurate Mass: 492.103888

Percentage Composition: C 41.46%; H 3.89%; F 11.57%; N 17.07%; O 19.49%; S 6.51%

Biological Use/Importance: Branched chain amino acid synth. inhibitor and acetolactate synthase inhibitor. Post-emergence selective herbicide

Physical Description: Cryst.

Melting Point: Mp 160-163°

pKa Value: pK_a 4.4

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

References:

Pat. Coop. Treaty (WIPO), 1989, du Pont de Nemours, 89 09 214; CA, **112**, 179030r, (Me ester, synth, activity)

Peeples, K.A. et al., Brighton Crop Prot. Conf. - Weeds, 1991, 25-30; 1993, 177-182, (activity)

Wittenbach, V.A. et al., Pestic. Biochem. Physiol., 1994, **49**, 72-81, (activity)

Dietrich, R.F. et al., J. Agric. Food Chem., 1995, **43**, 531-536, (metab)

Pesticide Manual, 11th edn., 1997, No. 741